Appl. No. 09/834,413 Amdt. Dated May 22, 2006

ply to Notice of Allowability of Feb. 02, 2006



#### REMARKS

### Formal Drawings

The Notice of Allowability dated 02/22/2006 requires corrected drawings. In response, the applicants have attached 51 Replacement Sheets, 51 Annotated Marked-up Drawing Sheets corresponding to the Replacement Sheets, and 51 sheets of formal drawings, each sheet corresponding to a replacement sheet. Acceptance of the corrected drawings is requested.

Respectfully submitted.

Date: 22 May 2006

By: Jasylantiai C. Shal Jasvantrai C. Shah Reg. No. 39,444

# CERTIFICIATE OF MAILING

The undersigned hereby certifies that the foregoing AMENDMENT is being deposited as first class mail, postage prepaid, in an envelope addressed to: Mail Stop ISSUE FEE, Commissioner for Patents, P.O. Box 1450, Alexandria VA 22313-1450, on this 222nd day of May 2006. Jaslantia C. Shah

> Jasvantrai C. Shah Reg. No. 39,444

Appl. No. 09/834,413

Amdt. Dated May 22, 2006

Reply to Notice of Allowability of Feb. 02, 2006

## Amendments to the Drawings:

The attached sheets of drawings include 102 sheets of amended drawings, including both a replacement sheet and an annotated sheet showing changes for each figure, and 51 sheets of formal drawings.

Attachment:

51 Replacement Sheets

51 Annotated Marked-up Drawing Sheets corresponding to the

Replacement Sheets.

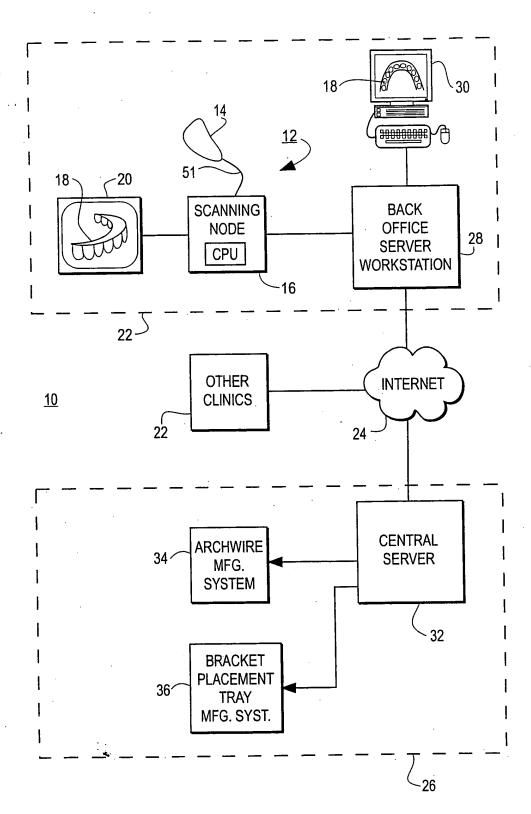
51 sheets of formal drawings, each sheet corresponding to a replacement

sheet

1/51



FIG. 1



BEST AVAILABLE COPY

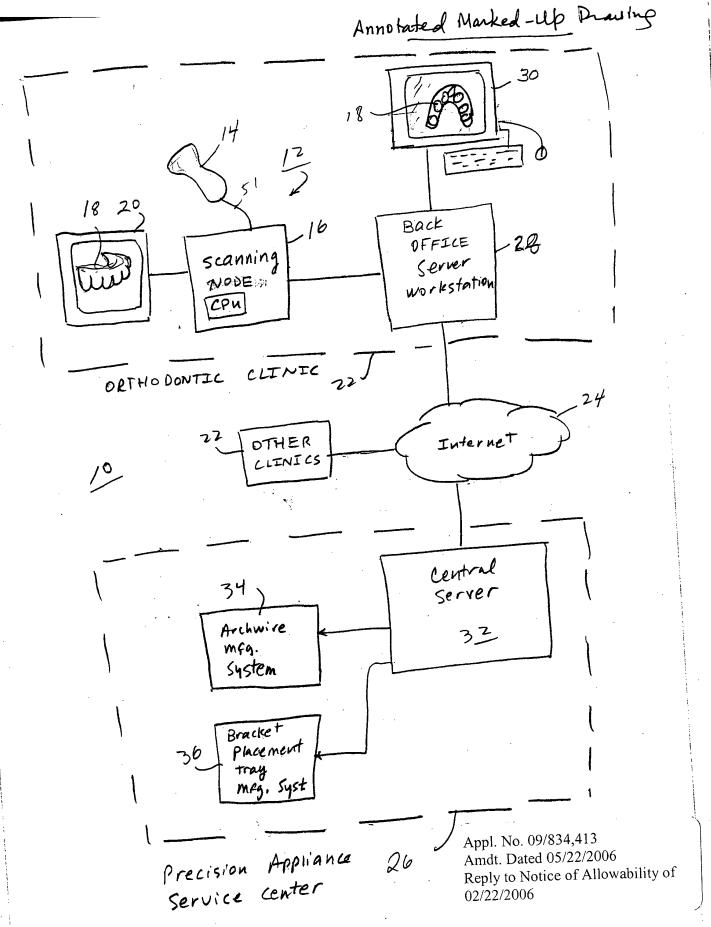
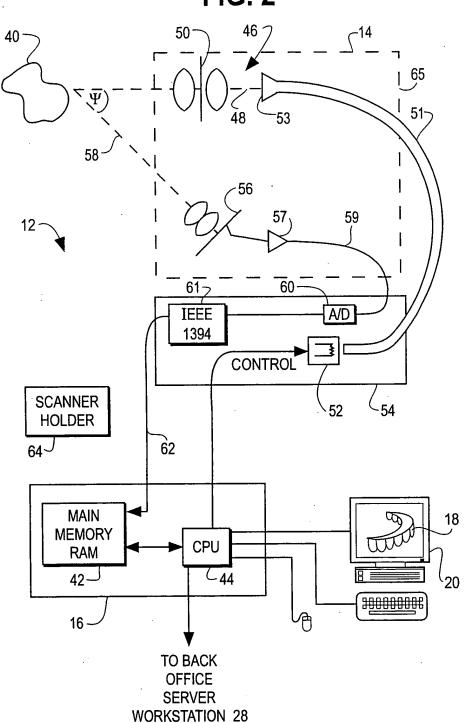
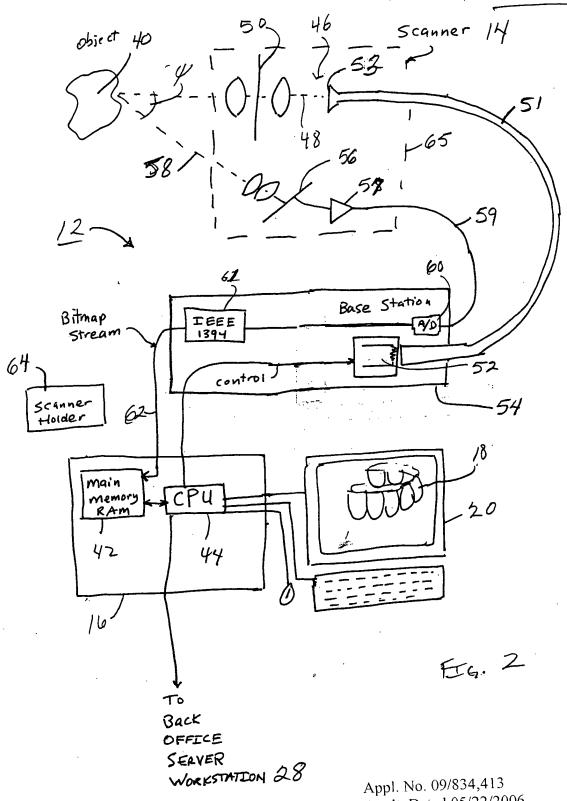


Fig. 1

FIG. 2



Annotated Maked-up Drawing



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FIG. 3

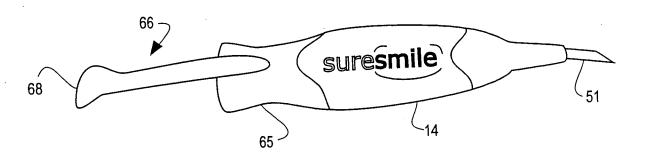
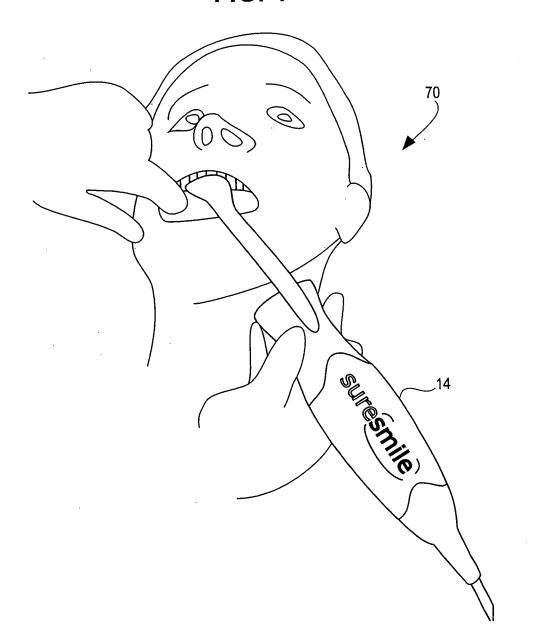
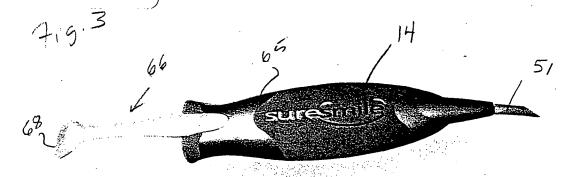
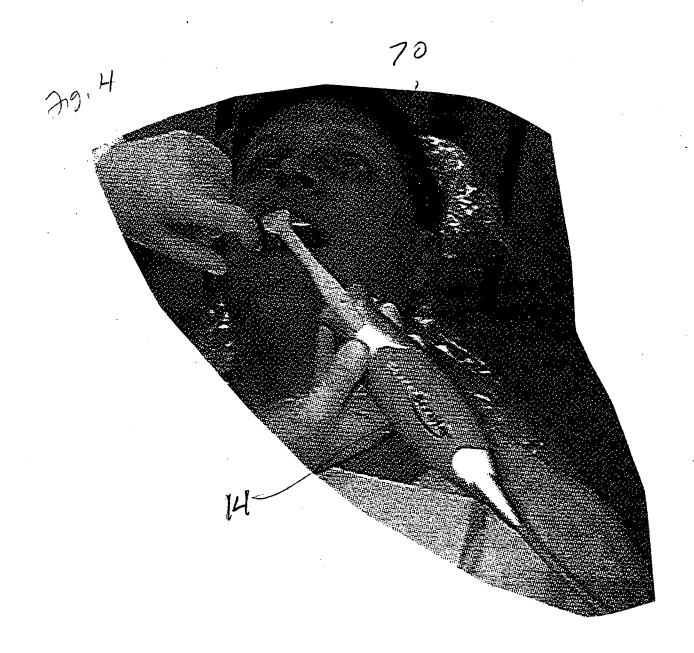


FIG. 4

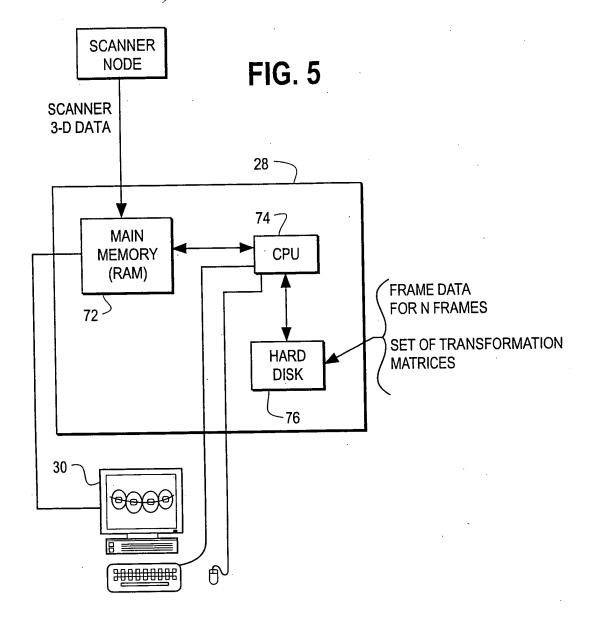


Annotated Marked up Drawing

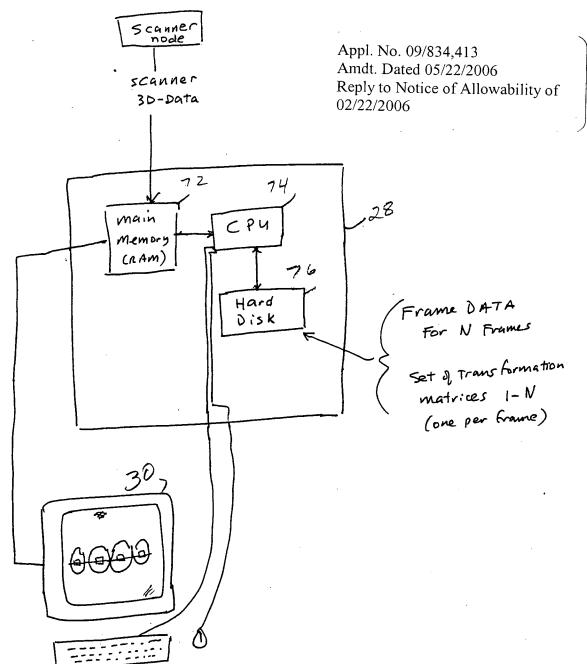




Replacement Sheet



# Annotated Marked up Drawing

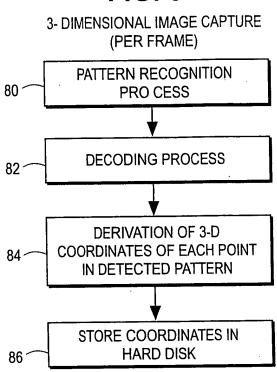


1ig. 5

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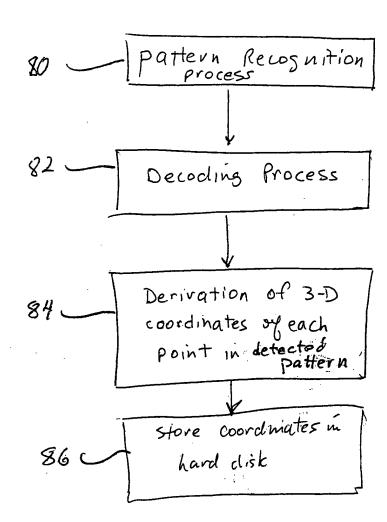
Replacement Sheet

FIG. 6

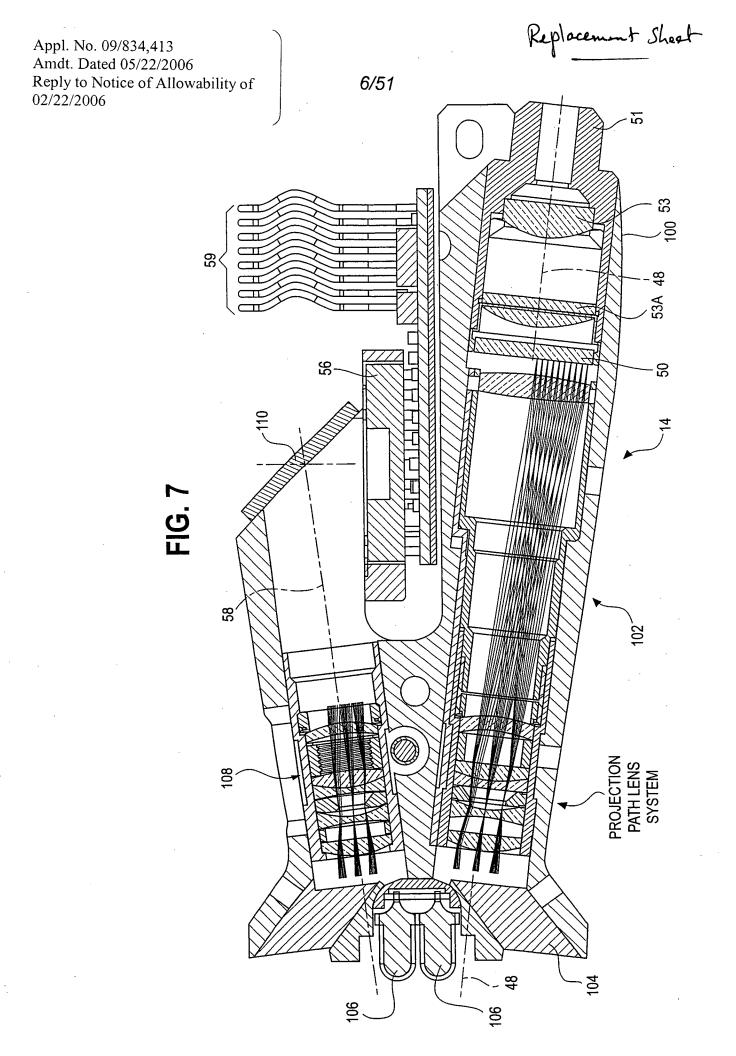


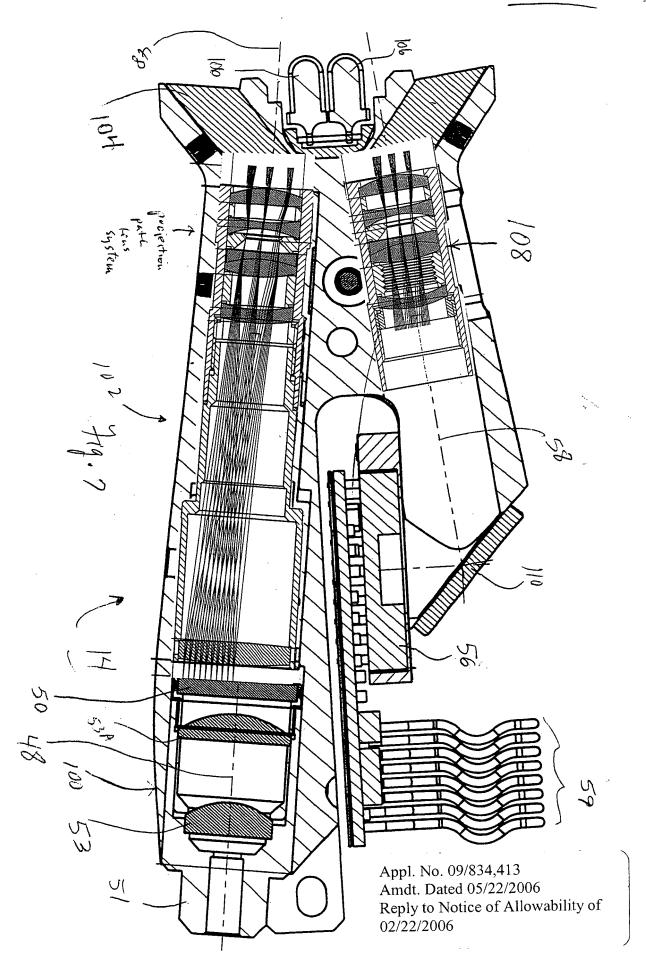
Annotated Marked-up Drawing

3-Dimensional Image capture (per frame)



A19.6

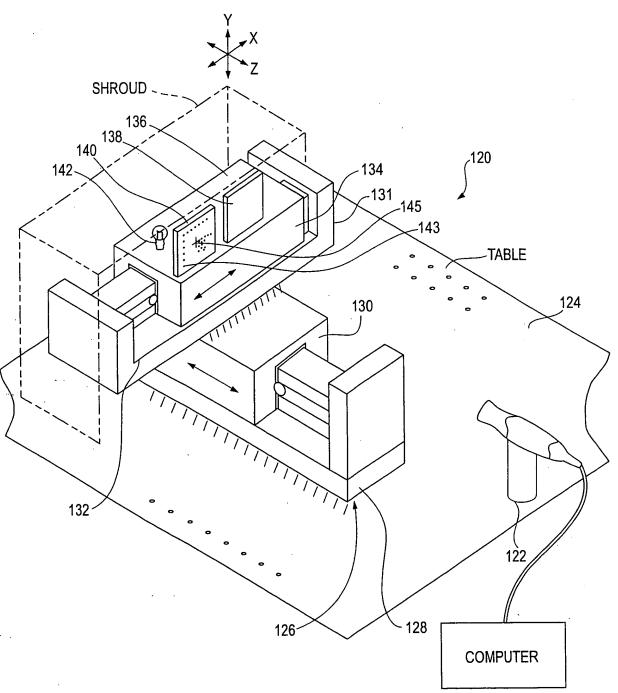




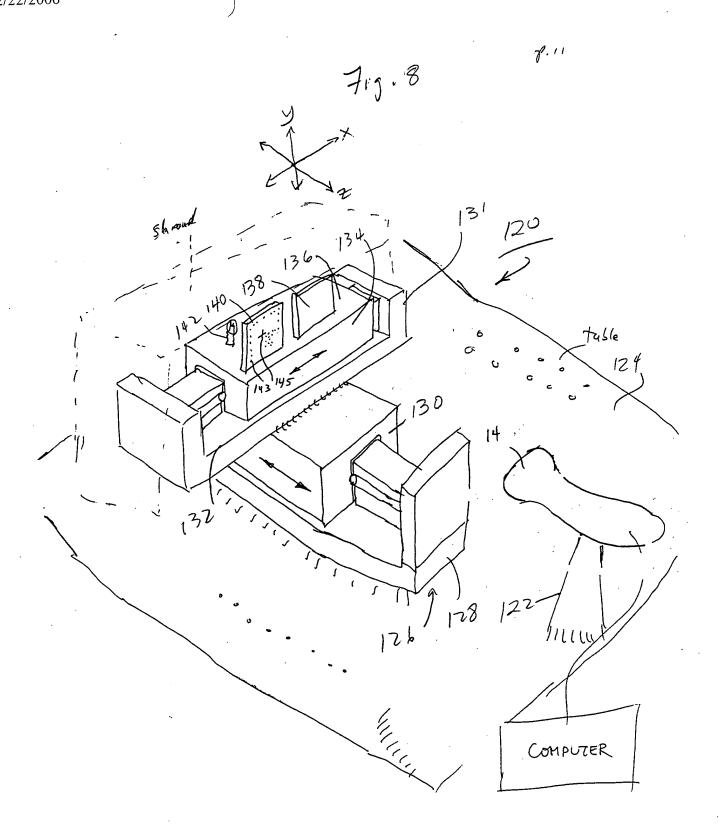
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FIG. 8



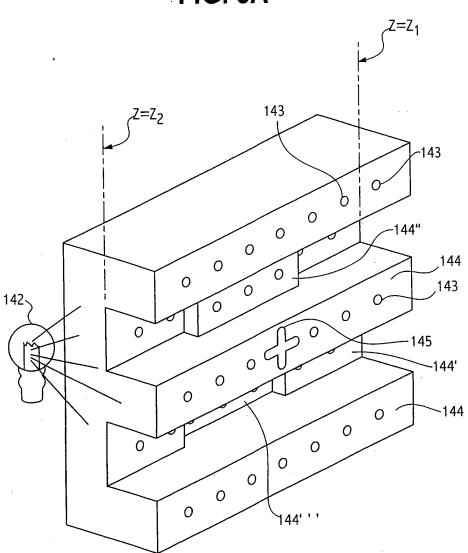
Annotated Marked up Drawing

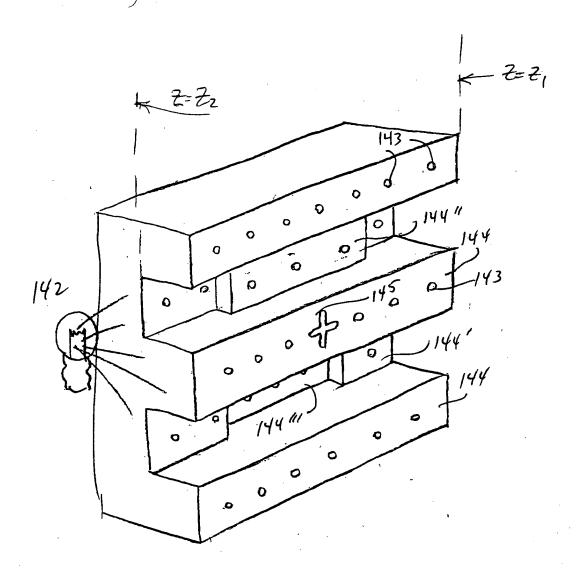


Replacement Sheet

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FIG. 8A



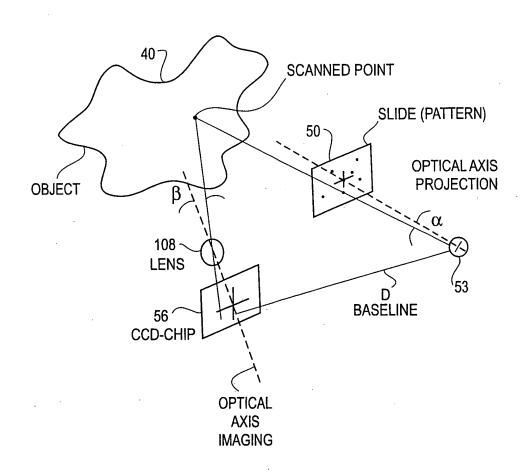


7.j. 8A

Replacement Sheat

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FIG. 9

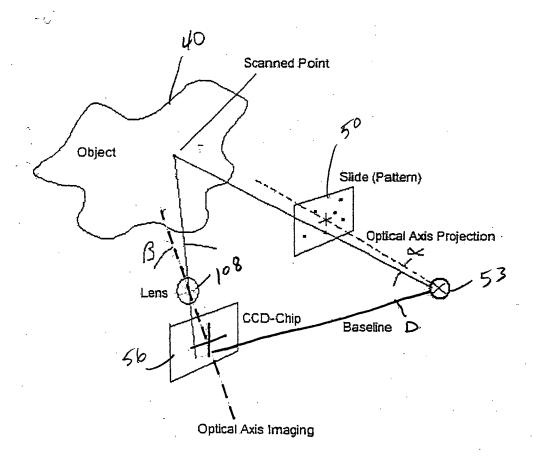


Annotated Marked-up Drawing

. 1

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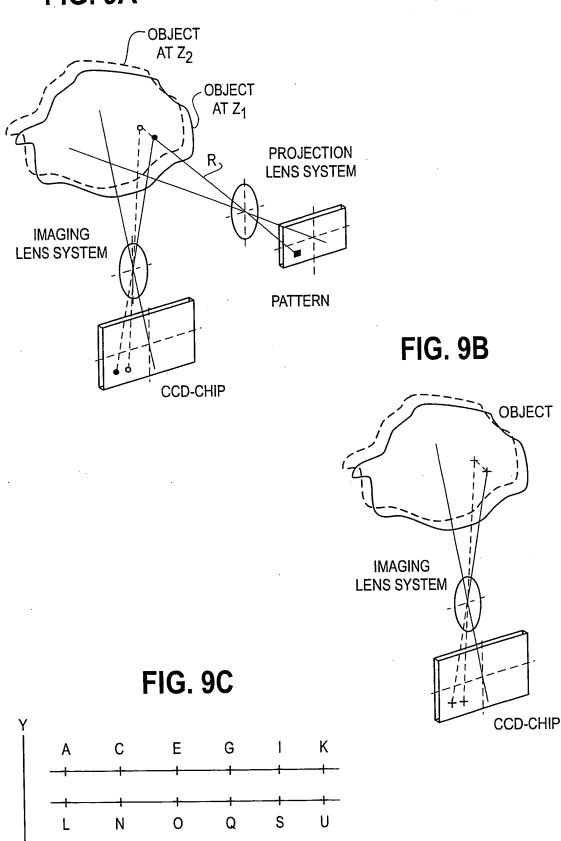
719.9



Replacement Sheet

FIG. 9A

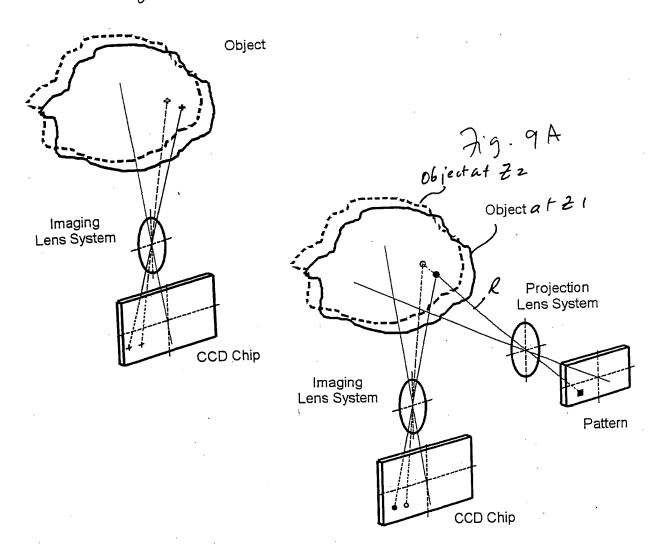
10/51

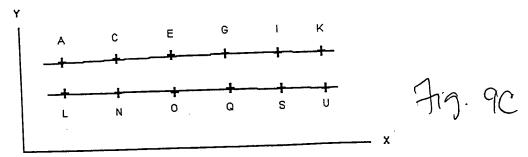


Χ

Annotated Marked-up Drawing

119.70

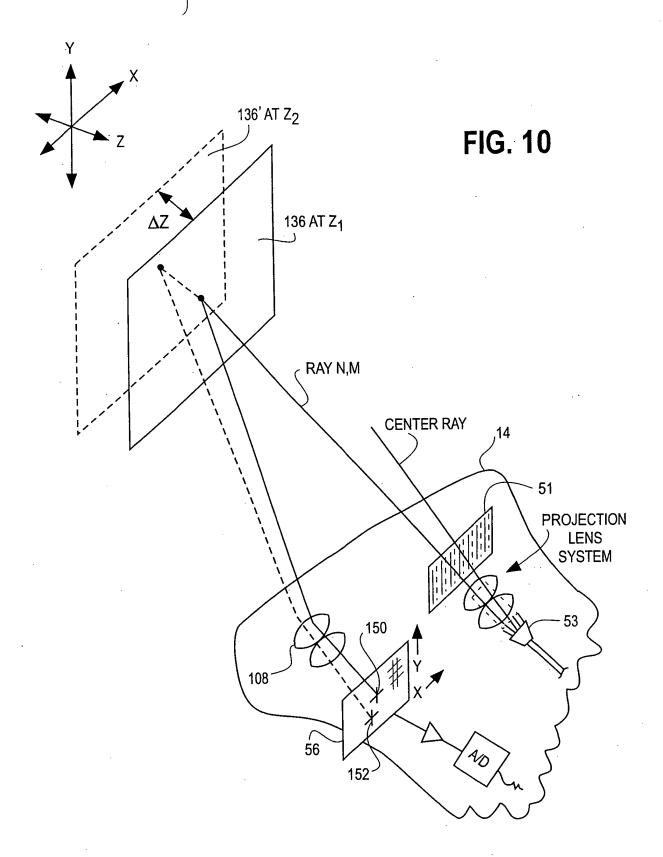




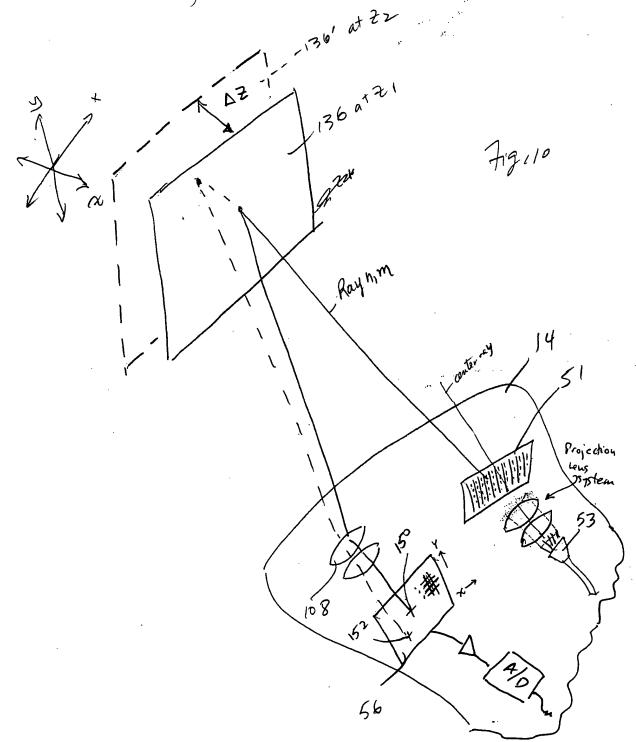
Pixel coordinates for portions of the pattern assigned to a certain Z-level

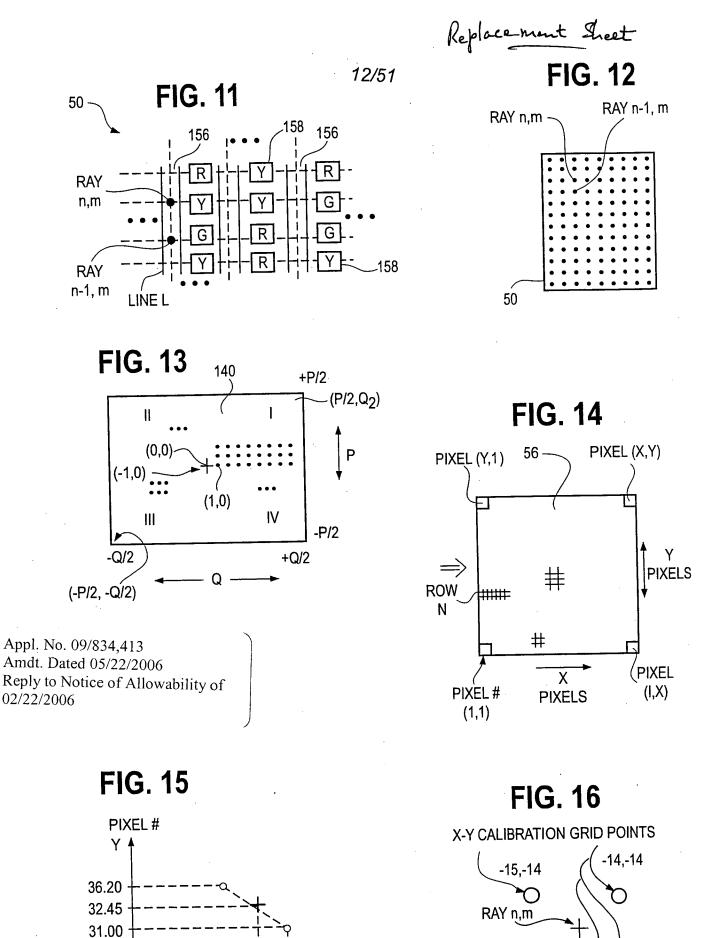
Replacement Sheet

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Annotated Maked-up harry





PIXEL#

Χ

30.2 35.0 43.0

-15,-15

-14,-15

-15,-15

Pixel#

35

30,2

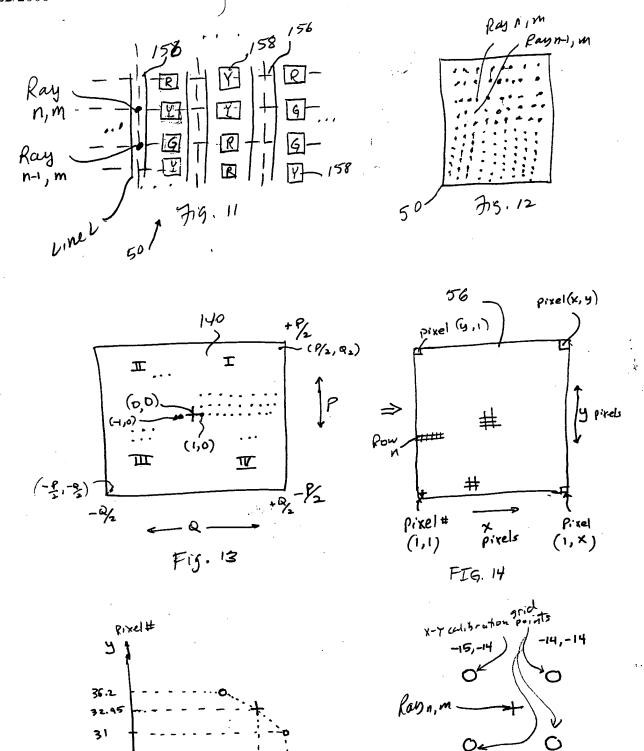
15

713,

43

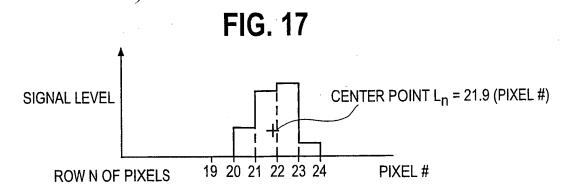
-15,-15

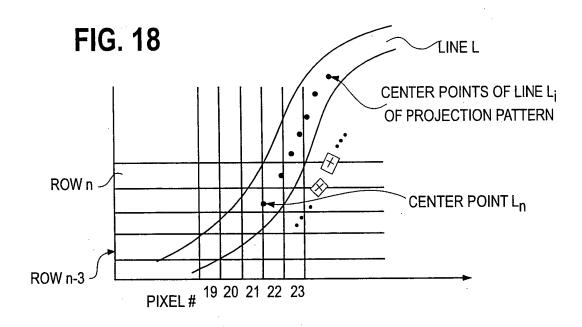
7,5.16



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Replacement Sheet





Annotated Maked-up Drawing

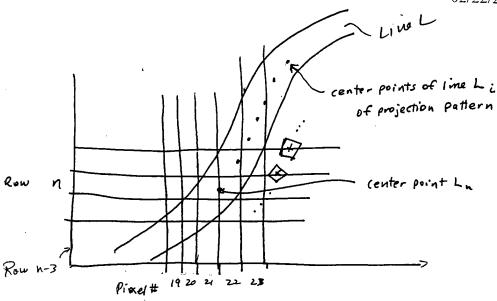
7.9.17

Row Nob pixels

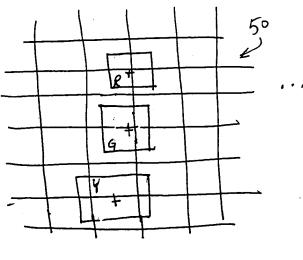
center point Ln = 21.9 (pixel#)

Pixel #

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715.18



71g.19

Replacement Sheet

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FIG. 20

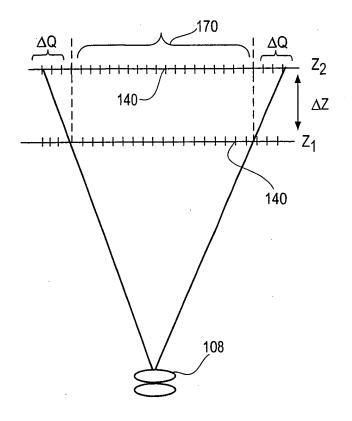
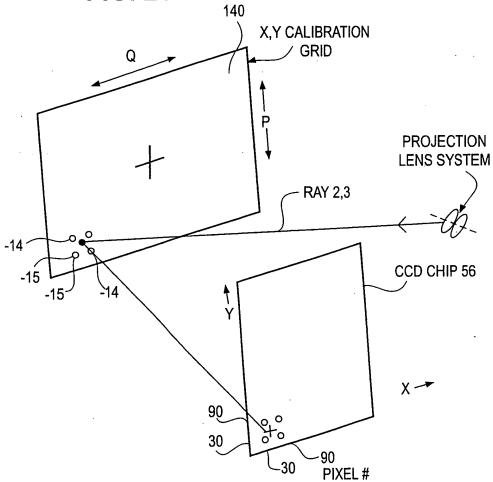
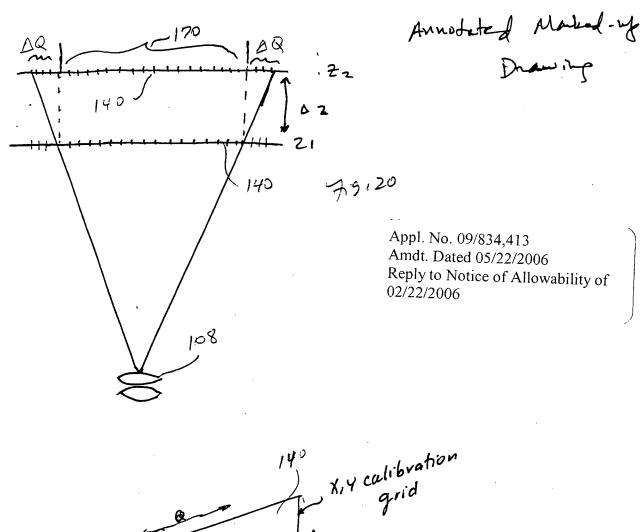
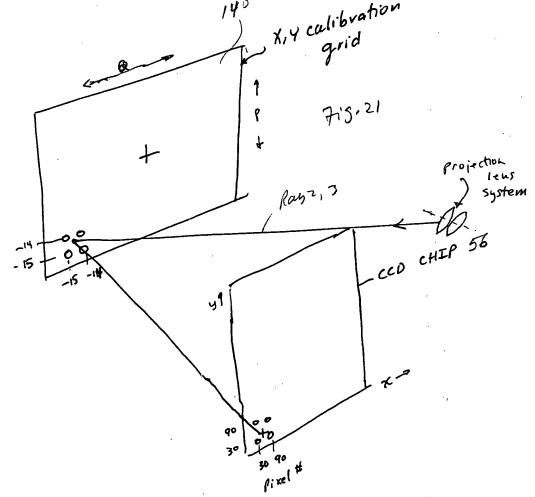


FIG. 21

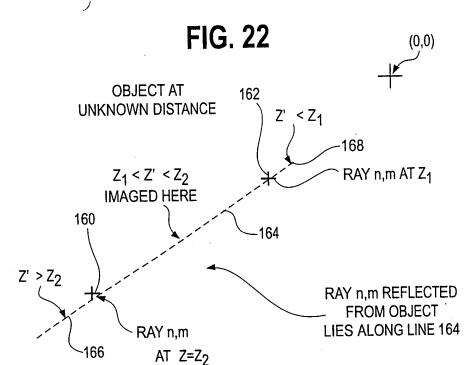




ì

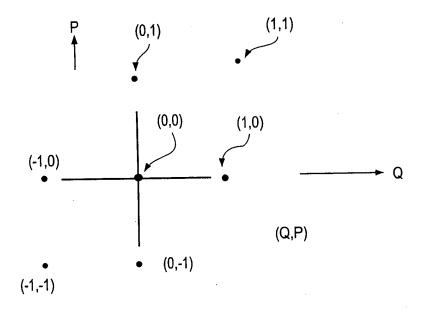


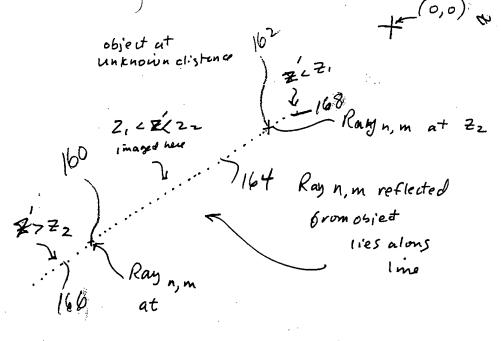
Replacement Sheet



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FIG. 23





7.9.22

Appl. No. 09/834,413 Amdt. Dated 05/22/2006

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 $CCD_X$ ,  $CCD_Y = PIXEL \#$ , IN SUBPIXEL RESOLUTION

CALIBRATION TABLE #1

								Repla	scem	ent.	Sheet
,					1	6/51					
J		ROW M		·							<u>.</u>
z		•									
LINE		ROW 1 ROW 2						_			
		ROW 1									
•		ROW M									
•			!								
		ROW 4	37.1		44		46		48.2		
		ROW 3	30.2		36.2		43.0		31.0		
<b>C</b>	,	ROW 2	29.5		21.6		41.1		21.8		
INE 2	LINE,	ROW 1	27.1		11.5		34.0		13.2		
		ROW M ROW 1 ROW 2 ROW 3 ROW 4	•								
		•									
		ROW 4	2.1		44.5		12.2		46.3		
, !	 	ROW 3	1.5		32.8		6.8		30.4		
	LINE	ROW 1 ROW 2 ROW 3 ROW 4	1.1		20.4		4.5		21.5		
		ROW 1			10.2		3.9		12.1		
			CCDX	MM DIST.		MM DIST.	XQSS	MM	$z_2 \frac{z_2}{ccb\gamma}$	MIM DIST.	
				t	7				Ž		

Appl. No. 09/834,413									2 \	A	<b>ਅ</b> ጒ፡	o ta	ted	Ma	akad.	ly :
Amdt. Dated 05/22/2006 Reply to Notice of Allowab		72							Annotated Markeding							
02/22/2006			Dist.	CC PC	mm Dist.	× CCD	Distana M M	CCDY	yn m Distance	×						
				12.1		3.9		102		1.0	Row 1			000		
				21.5		4.5		20.4		<del>.</del> –	Row 2	Ľ.		Հ× .		
· ·				30.4		6.8		32.8		1.5	Row 3	Linel		(C) Y =	ŧ	
				46.3		12.2		744.5		ν -	Rawy			= Pixel	· ·	
•		,						01		<u>;</u>	**		•	T.		
								18.87		:	ROWA			, in subpixel		
				13.2		34.0		11.5		27.1	Row! Pow	<u>.</u>	cali	pixel		
				21.8		41.1		21.6,		29.5	Powz	4	callibration	resolution	•	:
•			ŀ	+									Z,	ų tion		
				31.0		43,0		36.2	; ;	30.2	80W 3		Tuble			
	-			48.2		94		44		37.1	Row 4		т. Т			
									1		::		_			
			ļ	-					<u></u>			•		the form		
(											Row M		. `			
											ROW!		•			
			-								L moy	rine		25,24		
						,	,		-	1	<del>-</del> -	Z		4		
	<del></del>		-		-	-			+-	-						
			l				H		1.		Rote M					

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25.	)2/2/	2/200	)6					]17	7/51					
FIG. 25		(0, P/2) (1, P/2) • • • (Q/2, P/2)	1,279.5	1,279.4	1,256.4	1,251.5	_	• • (-1, P/2) (-2, P/2) • • • (-0/2, P/2)						
		•					-	•						
	ROW + P/2	(1, P/2)	•	•	•	:	+P/2	(-2, P/2)					•	•
	ROW	(0, P/2)	•	•	•	•	ROW +P/2	(-1, P/2)						
(Q,P)		•					·	•						
<u>a</u>														
0.1		(2,1)	:	:	•	•		(-3,1)						
CALIBRATION TABLE #2	7	• • •   (Q/210)   (0,1)   (1,1)   (2,1)   • • •	640.1 700.2	701.2 701.5	681.2	680.9	ROW 1	(-2,1)						  ≥   <b>\</b>
ION T	ROW 1	(0,1)	640.1	701.2	•	•	8	(-1,1					QUADRANT III	QUADRANT IV
alibra1		(a/210)			1,279.5	640.2	<u>.</u>	(-Q/210			·		no no	O
· 3		•						•						
	ROW 0	(0,0		•		:	ROW	• • •   (-Q/2 - \( \Delta \O, 0)   • • •   (-Q/210)   (-1,1)   (-2,1)   (-3,1)   • • •		-				·
		•	•											
		(3.0)   (2.0)   (3.0)	820.5	640.4	801.6	640.1		(-3,0) (-4,0)						:
		(2.0)	760.6	640.3	680.3 741.2	640.3 640.1 640.1		(-3,0)					(-2,-1)	(1,-1)
	ANT I	(10)	CCD <sub>X</sub> (49.1 700.2 760.6	ССD <sub>Y</sub> 640.1 640.1 640.3	680.3	640.3		(-1,0)   (-2,0)					Z <sub>1</sub> CCD <sub>X</sub> (-1,-1) (-2,-1) • CCD <sub>Y</sub>	(0,-1)
	QUADRANTI	(0 0)	640.1	640.1	CCD <sub>X</sub> 640.2	ССДУ 640.2		(-1,0)					× > × > × >	Z <sub>2</sub> CCD <sub>X</sub> (0,-1) Z <sub>2</sub> CCD <sub>X</sub> (0,-1) CCD <sub>Y</sub> (0,-1)
	J		CCDX	'	CCDX	1	TNAGRALIO	יייט וליטלטא איני וליטלטא	CCDX	CCD	CCDX	2 CCDy	$\frac{Z_1}{Z_2}$	$z_1 \frac{\text{CCD}_X}{\text{CCD}_X}$
				7	-	25	ر	,	1	7	1	75		

Annotated Marked up Drawing

1111 (0)	>, cc0x (-1,-1)(-2,-1) Quadrant III	2, ccpy 2 ccpx 2 ccpy	CCO, (-1,0) (-2,0) (-3,0) (-4,0   (-2,0)   (-2,1) (-2,1) (-2,1) (-2,1) (-2,1) (-2,1) (-3,1)	Z CCDX 640.2 680.3 741.2 801.6 1,279.5 681.2 680.9	2, CCPY 640.1 700.2 7606 820.5 640.1 700.2	Quadrant 1 (alibration Table #2 (Q, P) (O,O) (1,0) (2,0) (3,0) $\cdots$ (Q, -DQ,O) $\cdots$ (Q,O) (O,I) (CI,I) (2,I) $\cdots$
52 'SIF	•		(-1, P/2) (-4, P/2) (-8, P/2)	: :		$\begin{pmatrix} R_0 w + P/2 \\ c_1 & P_2 \end{pmatrix} \begin{pmatrix} r_1 \\ r_2 \end{pmatrix}$
·			(-%,%)	1256.4	1,279.4	(%, h)

02/22/2006 8/51												
•			ROW M									
	( <del>)</del>	LINEN	•									
			8									· 
			ROW 1	·								
			ROW M									<u></u>
	(AFTER)	PATTERN 1 1 INF 2	•									
OLUTION	CALIBRATION TABLE #1		ROW 4	37.1		44		46		48.2		
			ROW 3	30.2	-14.6	36.2	-14.4	43.0	-14.8	31.0	-15.8	
			ROW 2	29.5		21.6		41.1		21.8		
				27.1		11.5		34.0		13.2		
			ROW M	•								
il Res(			:									
$CCD_X$ , $CCD_Y = PIXEL \#$ , IN SUBPIXEL RESOLUTION		PATTERN	ROW 4	2.1		44.5		12.2		46.3		
			ROW 3	1.5		32.8		6.8		30.4		
			ROW 1 ROW 2 ROW 3 ROW 4	1.1		20.4		4.5		21.5		
CDx, C(			ROW 1	1.0		10.2		3.9		12.1		
Ó		<u>o.</u> `		CCDX	MM DIST.		MM DIST.	CCDX	MM DIST.	CCD <sub>7</sub>	MM DIST.	
					ı	17		ļ	1	75		

Z

Row M

Replacement Sheet

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<sup>19/51</sup> Fig. 27

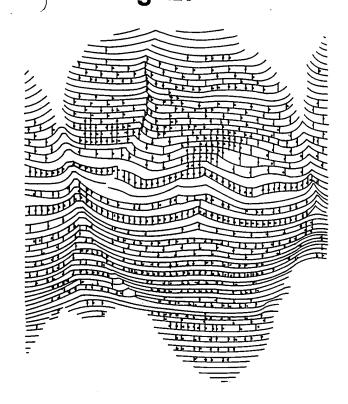
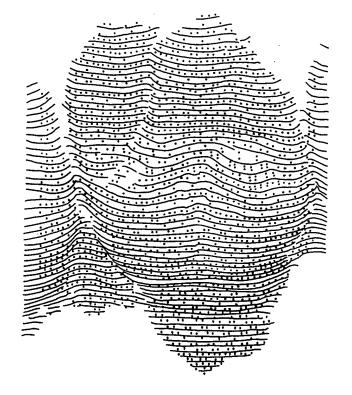
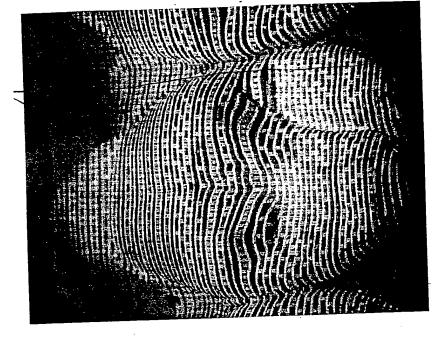
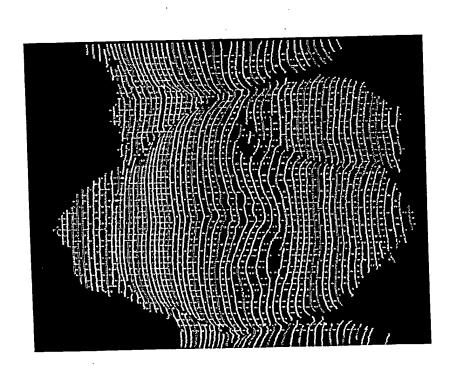


Fig. 28



Annotated Maked-up Drawy





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7.5.28

Replacement Sheet

Fig. 29

Fig. 30

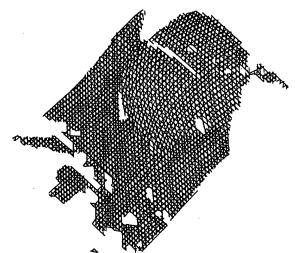
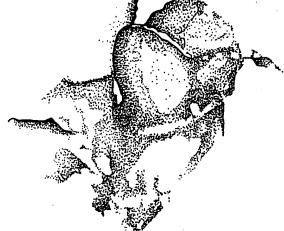


Fig. 31

1 Fig. 32





## Annotated Maked up Drawing

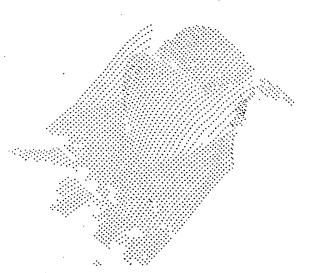


FIG. 30

F16. 29



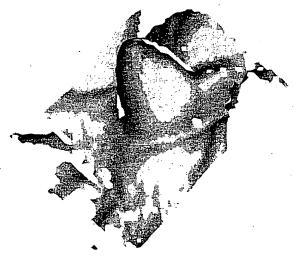


FIG. 31

FIG. 32

Fig. 33



Fig. 34

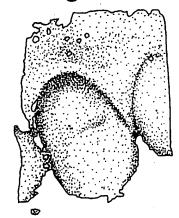
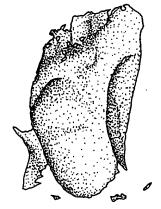


Fig. 35



Annotated Musked up Daing







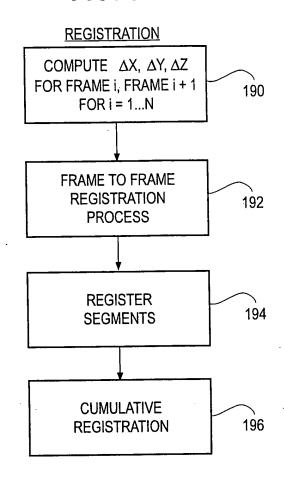
FI6. 35

FIG. 33

F56. 34

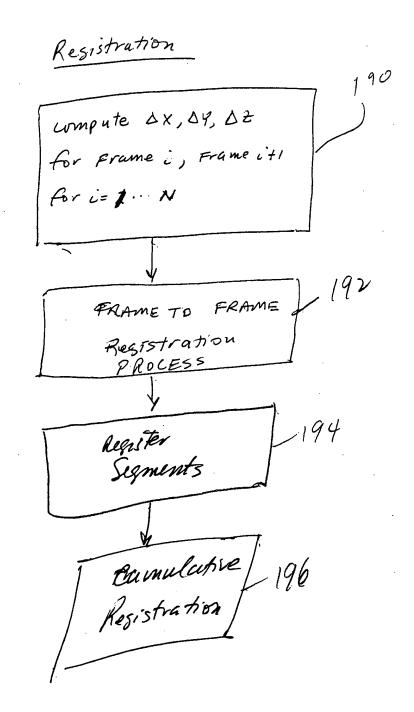
Replacement Sheet

FIG. 36



719.36

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Appl. No. 09/834,413

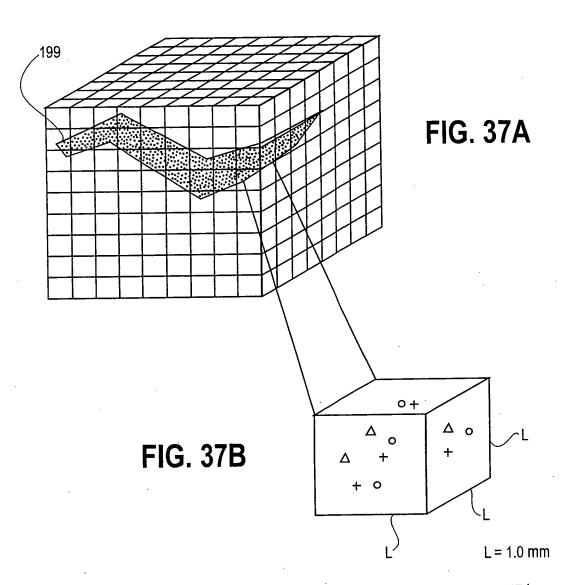
Amdt. Dated 05/22/2006

Reply to Notice of Allowability of

02/22/2006

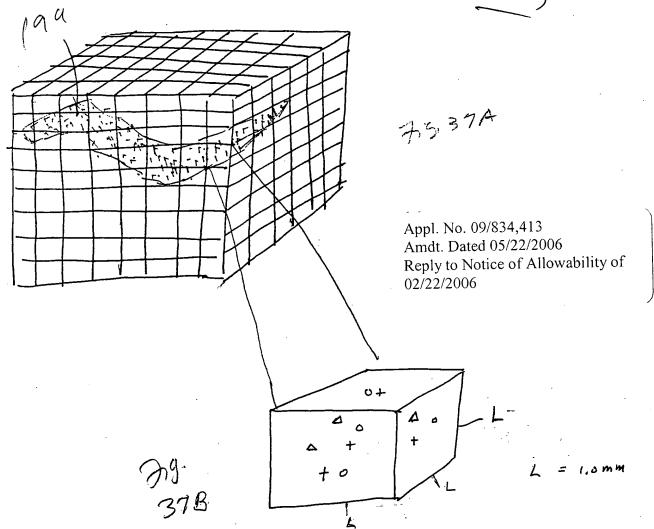
23/51

Replacement Sheet



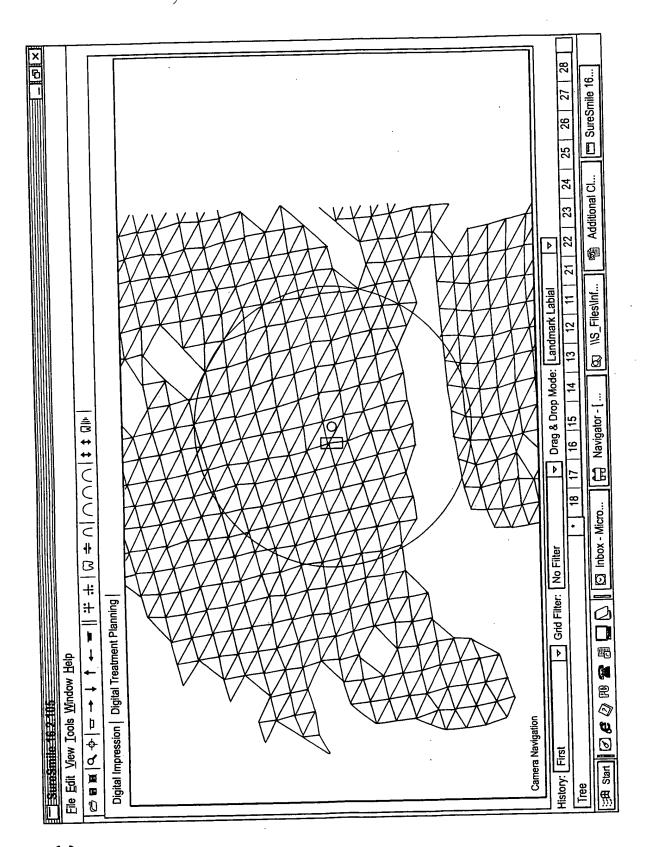
- $\Delta$  = POINTS OF FRAME i
- + = POINTS OF FRAME i + 1
- o = POINTS OF FRAME i + 2

Annotated Marked-up Drawing



A = points of frame i t = points of frame i+1 o = points of frame i+2

24/51



**IG. 37C** 

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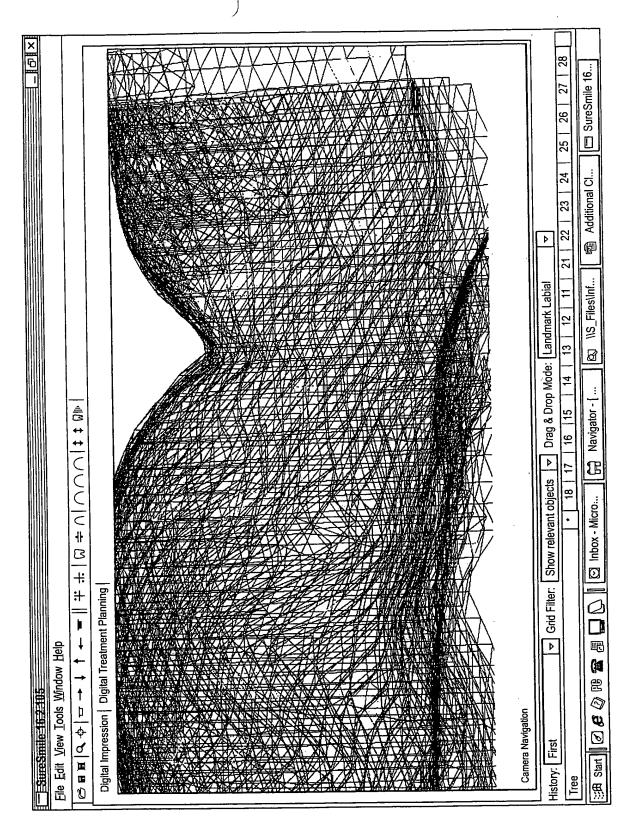
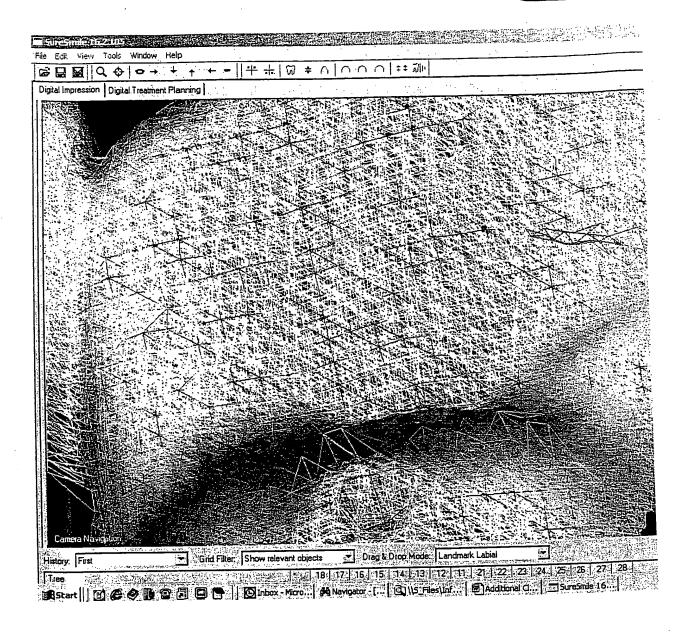


FIG. 37D

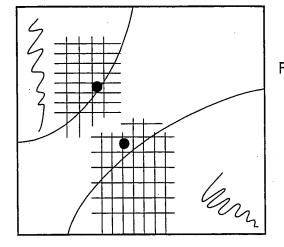


79-32 D

Replacement Sheet

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**FIG. 38A** 



FRAME i

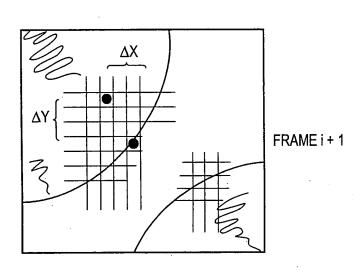
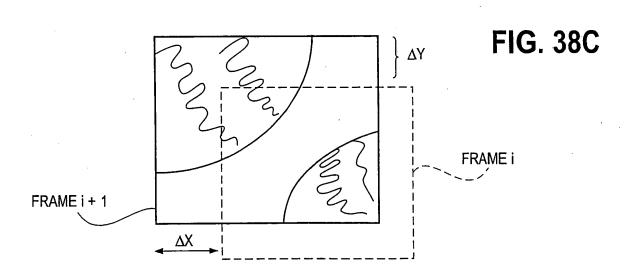
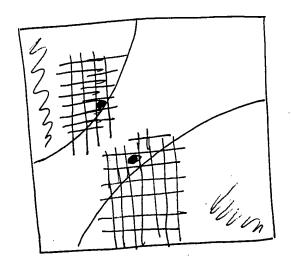


FIG. 38B



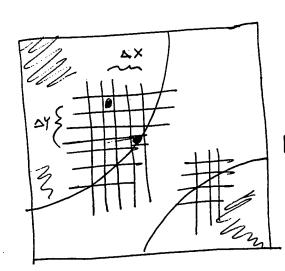


Annotated Maked-up Drawing

Frame i 75.

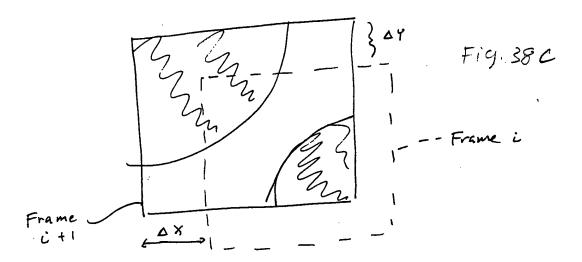
38A

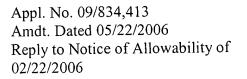
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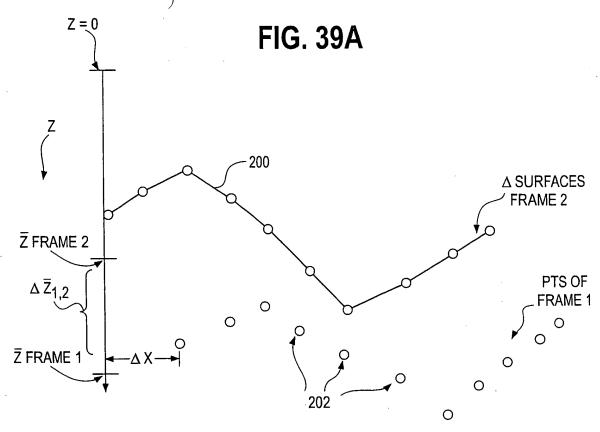
As. 38B

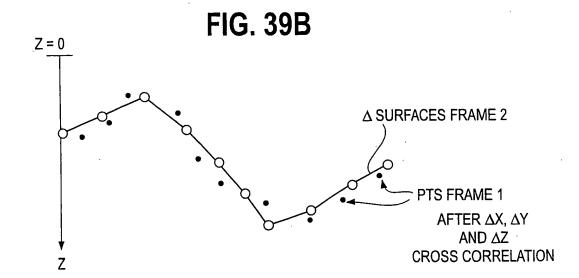
Frame i+1

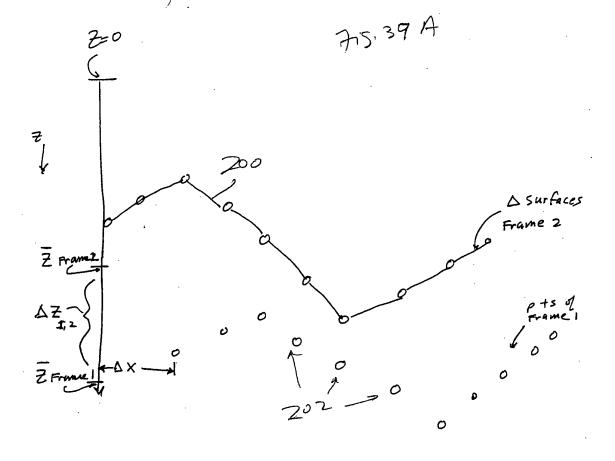


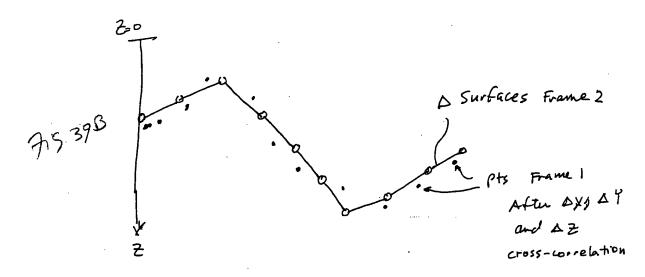


Replacement Sheet



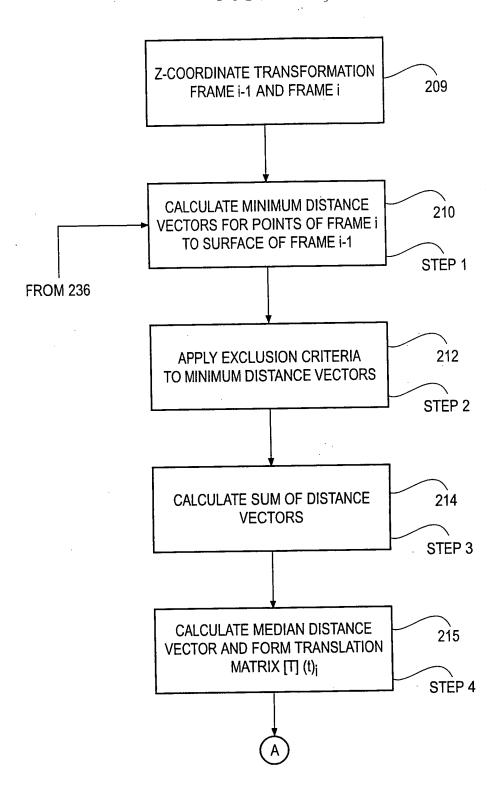




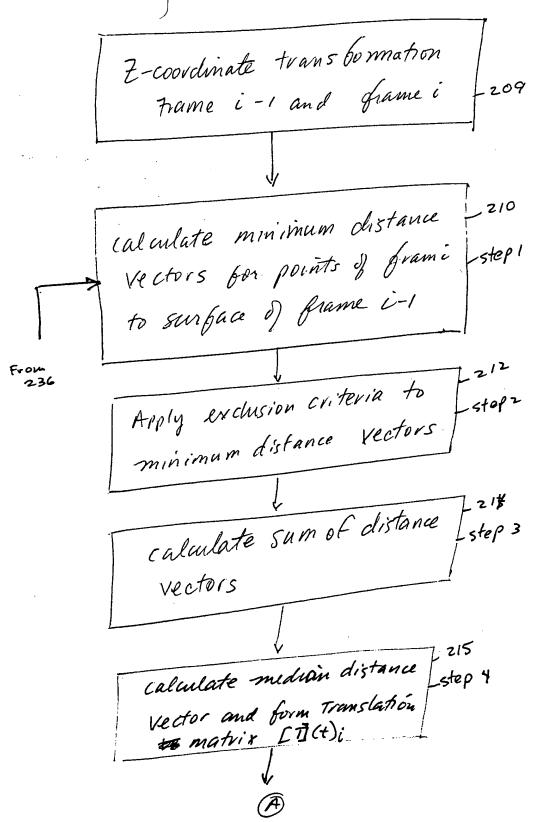


Replacement Sheet

FIG. 40A

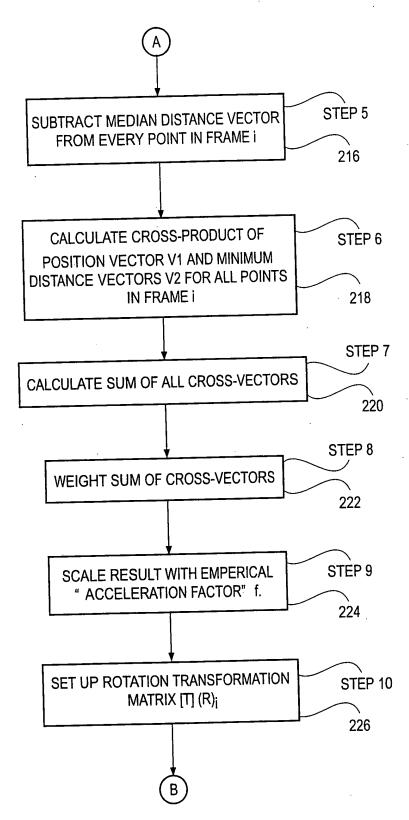


Annotated Marked-up Drawing 75.40A



Replacement Sheet

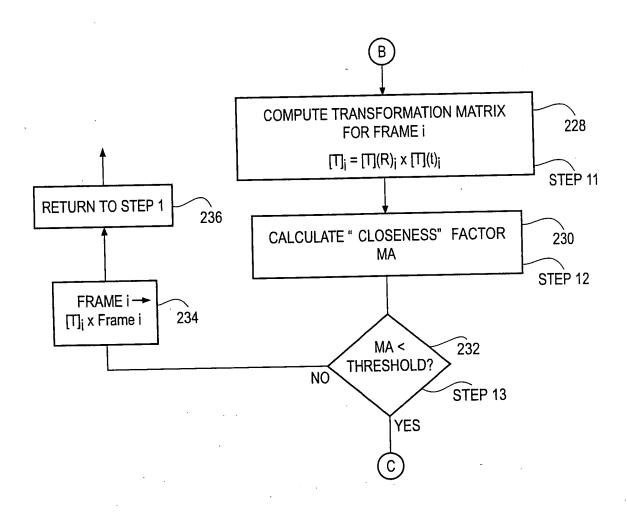
FIG. 40B

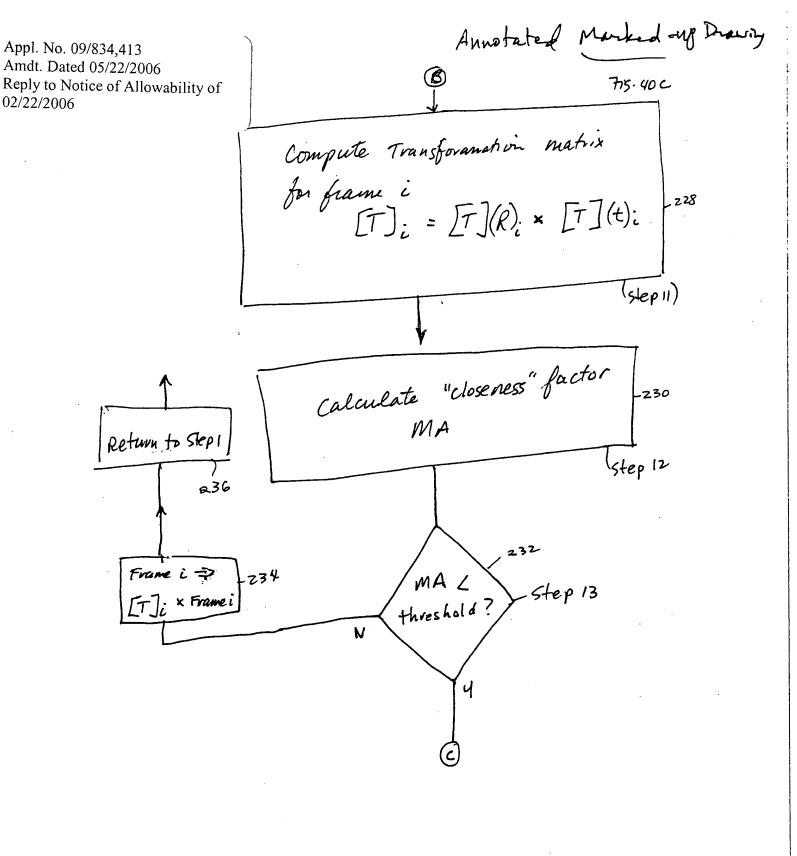


Annotated Marked-Up Drawing Appl. No. 09/834,413 Amdt. Dated 05/22/2006 Reply to Notice of Allowability of 02/22/2006 Subtract median distance vector from step 5 every point in grame i calculate cross-product of position vector and minimum distance | step vectors for all points in brami | 218 calculate sum of all cross-vectors step? Weight sum of cross-vectors step8 Scale result with emperical step9
"accelleration factor" f. - 724 set up rotation transformation step 10
matrix [T](R); = 226

Replacement Sheet

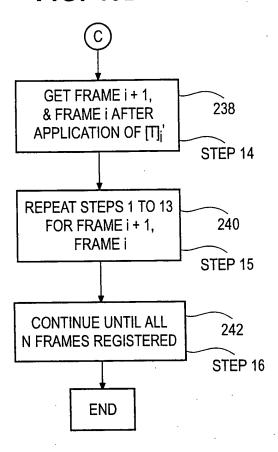
FIG. 40C



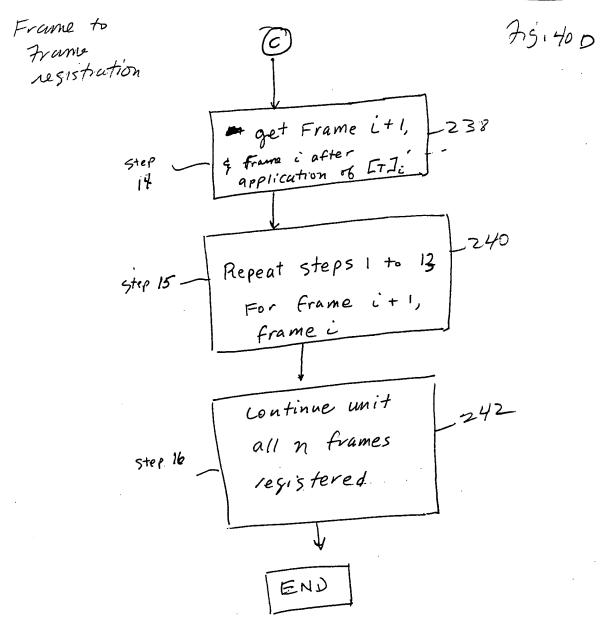


Replacement Sheet

**FIG. 40D** 



## Annotated Marked-up Drawing



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Replacement Sheet

FIG. 41

252 248

N2

250

TRIANGLE SURFACE
FRAME i - 1

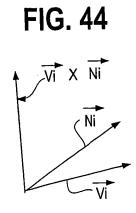
N5

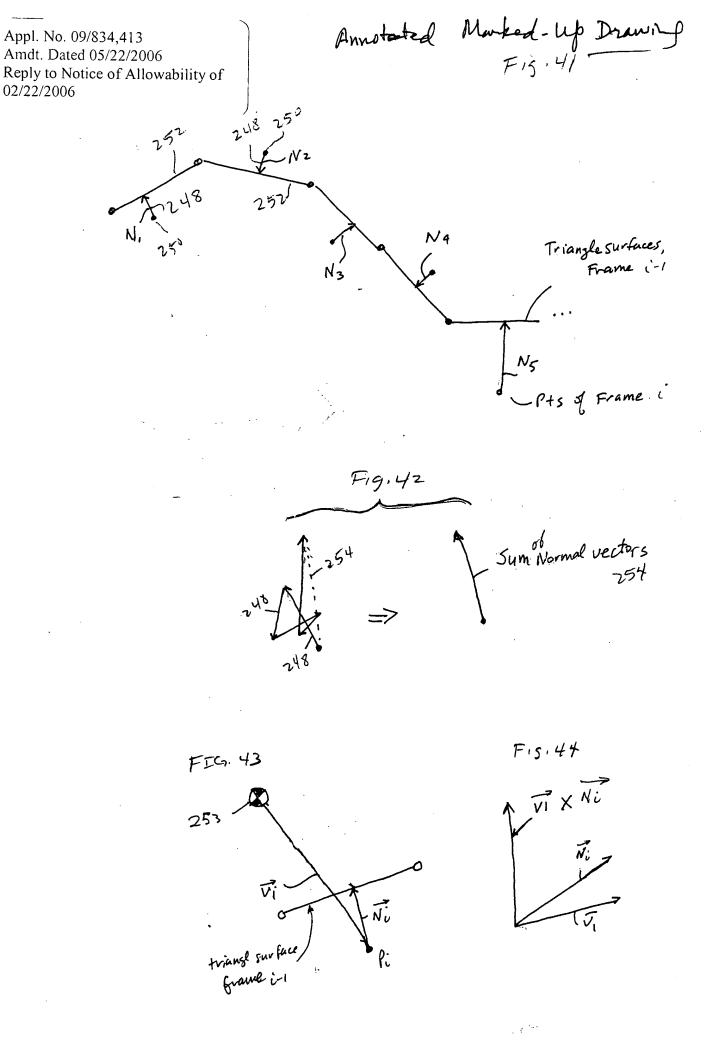
PTS OF FRAME i

FIG. 42

SUM OF NORMAL VECTORS 254

TRIANGLE SURFACE FRAME i - 1





Replacement Sheet

0

FIG. 45

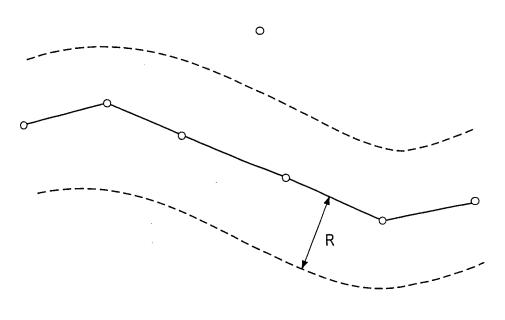
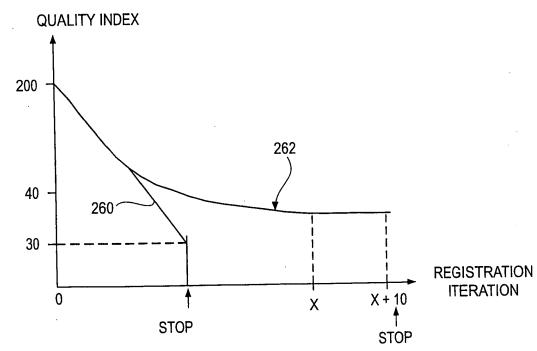
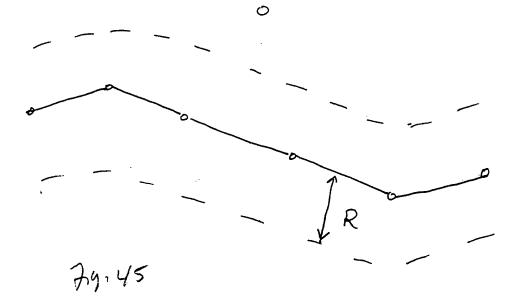


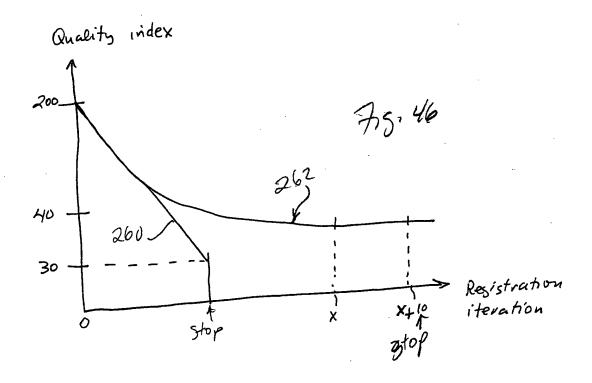
FIG. 46



Annatated Marked. up Drawing

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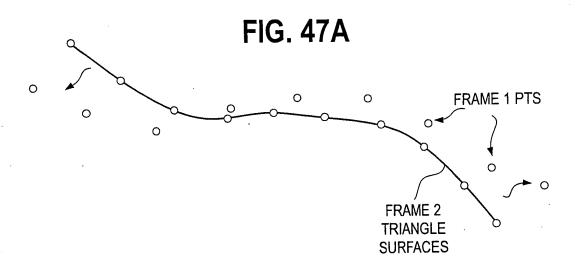
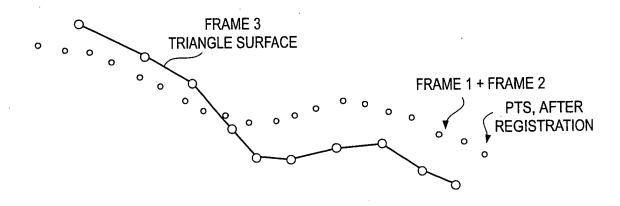
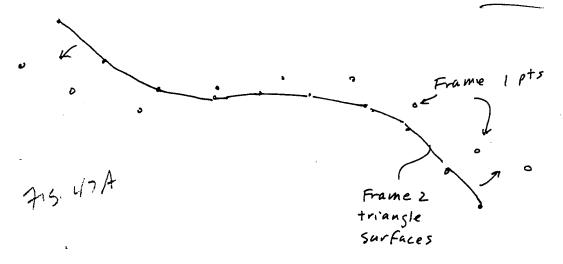
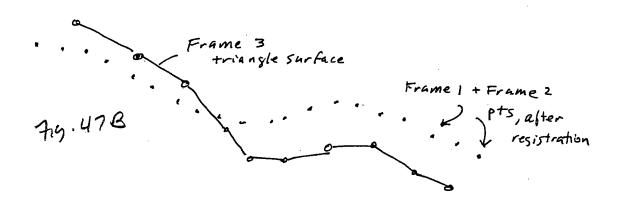


FIG. 47B



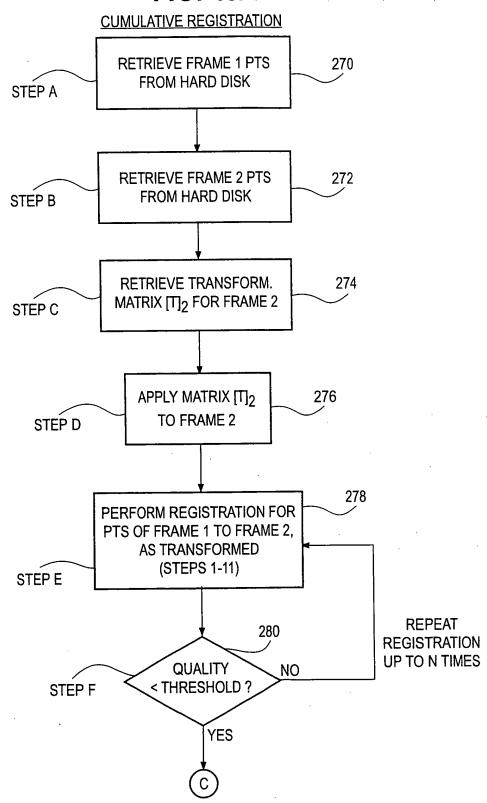
Annotated Marked-up Drawing





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**FIG. 48A** 



. Annotated Marked-up Drawing

Cumulative Resistration

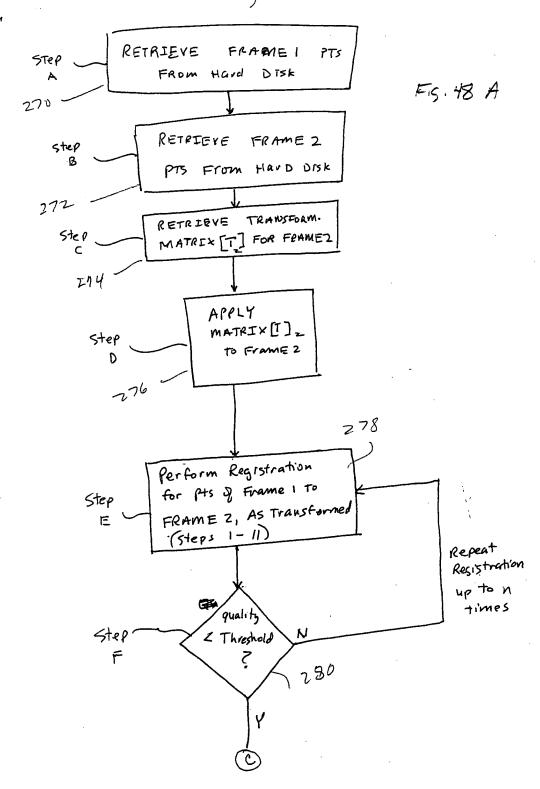
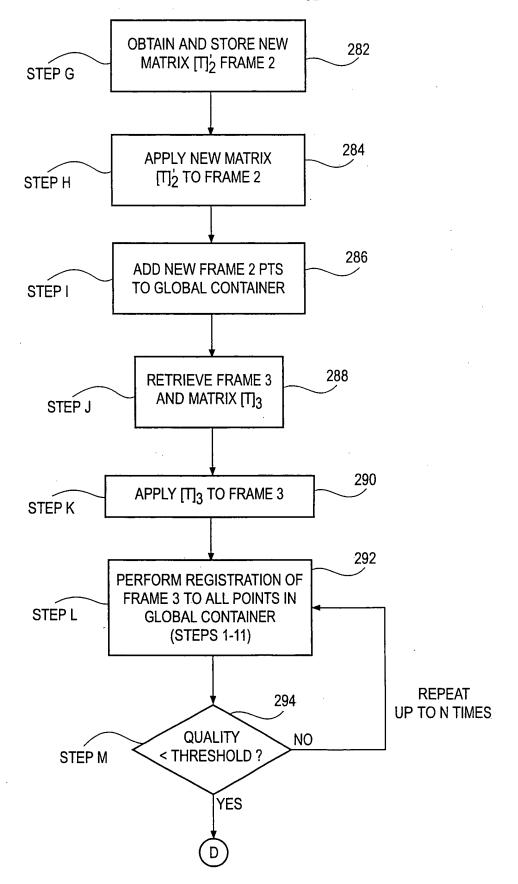


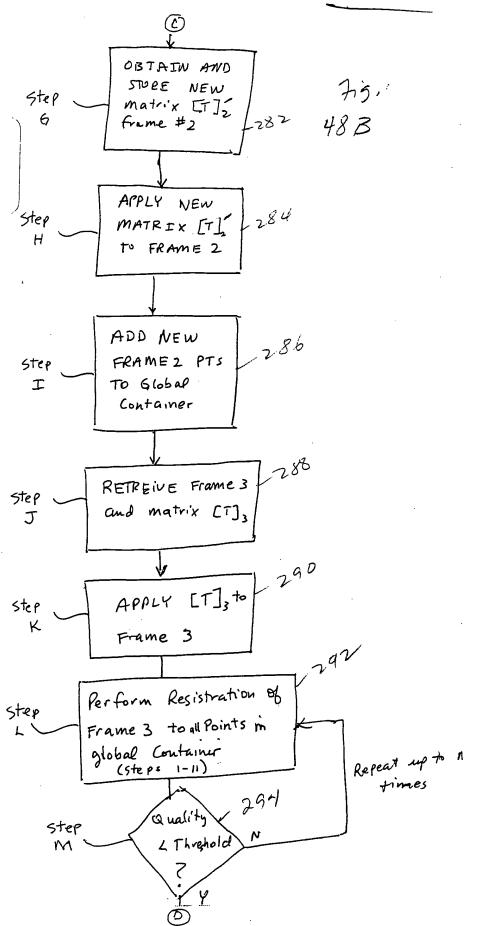
FIG. 48B

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registration

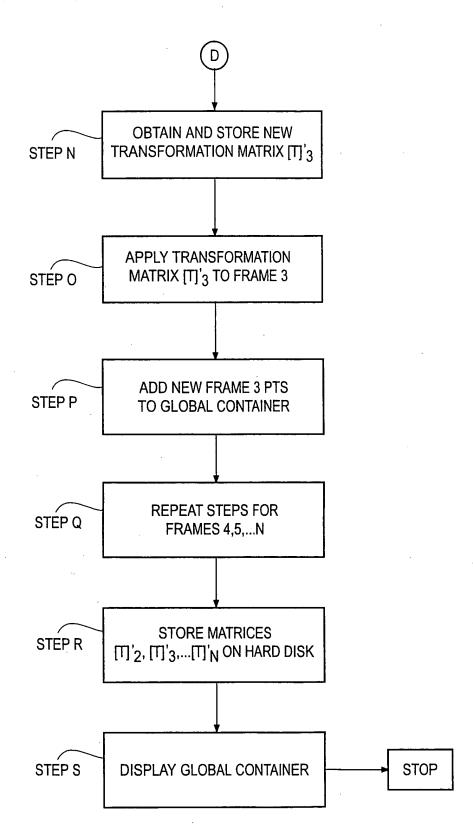
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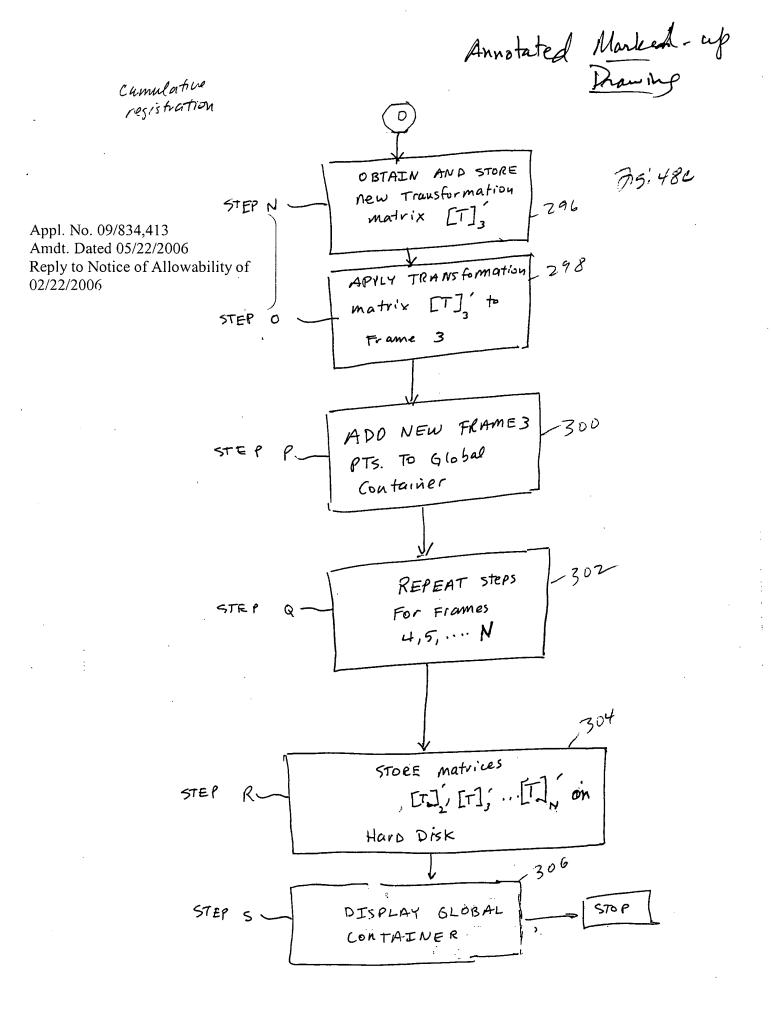


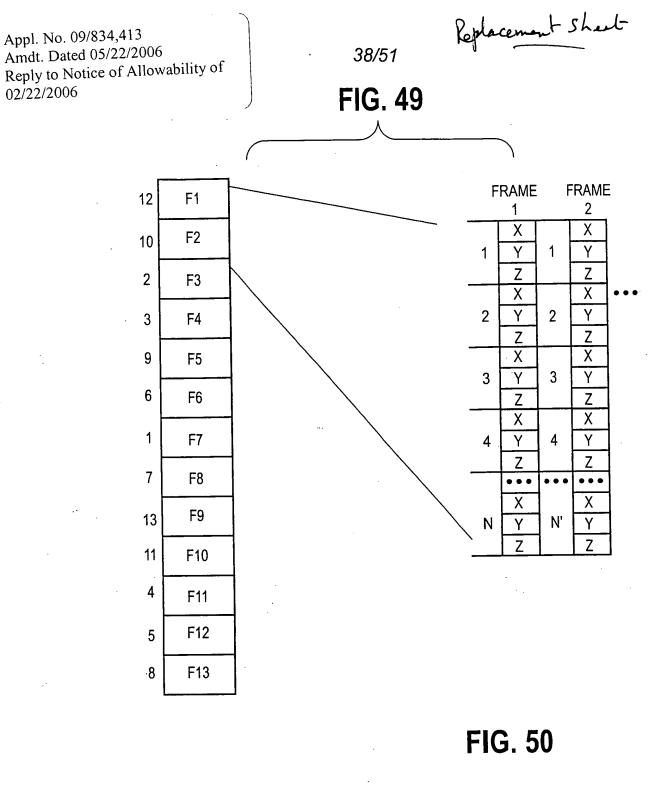
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Replacement Sheat

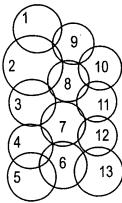
FIG. 48C

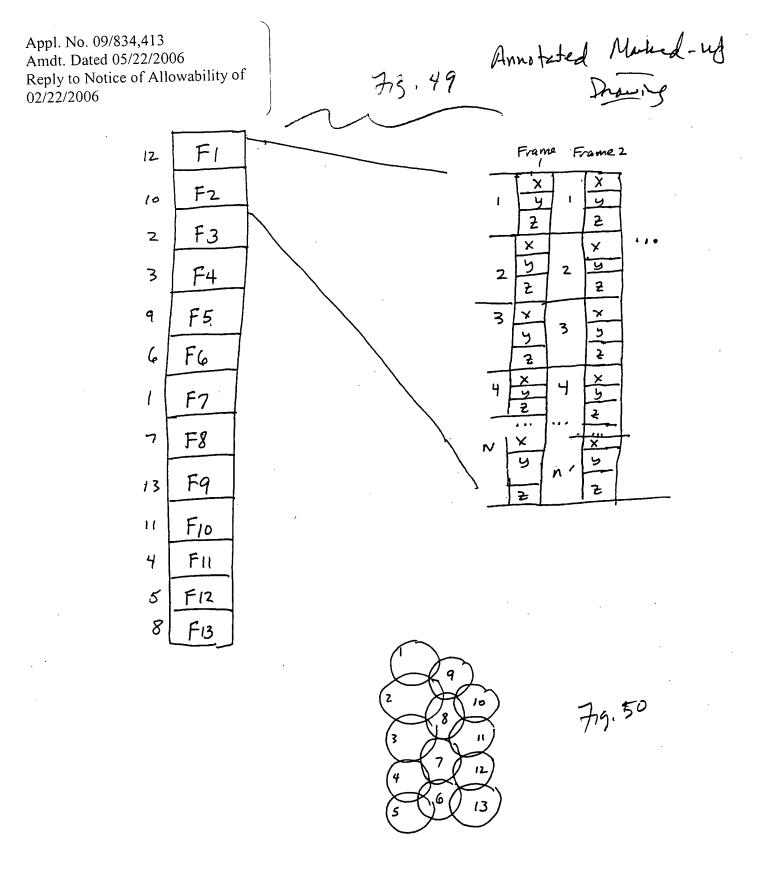


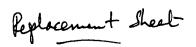




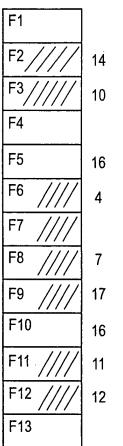
02/22/2006











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#### FIG. 52

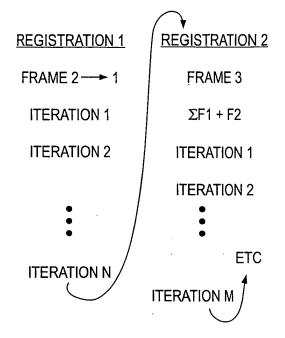
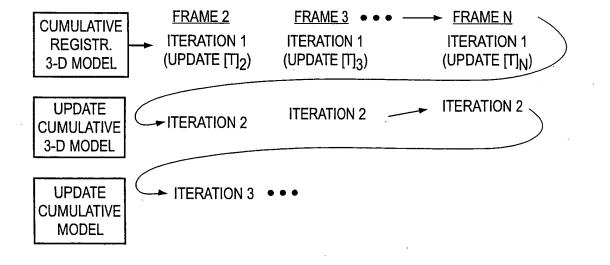
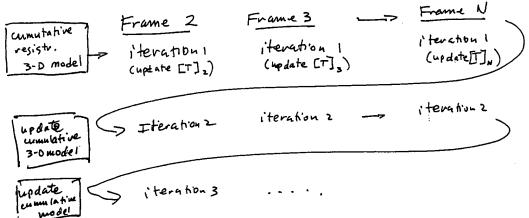


FIG. 53



Annotated Marked. Wp. Appl. No. 09/834,413 Amdt. Dated 05/22/2006 Reply to Notice of Allowability of 02/22/2006 79.51 Resistration 2 Registration Fi Frame 3 -> Frame 2 -1 SF.+F2 iteration 1 10 iteration 1 iteration2 iteration 2 16 FS 4 ete iteration N Fg 7 17 Flo 16 11 12 FI3 . . , 79.53 Frame N Frame 2 Frame 3 cumutative i teration 1 iteration 1 resistr. iteration 1



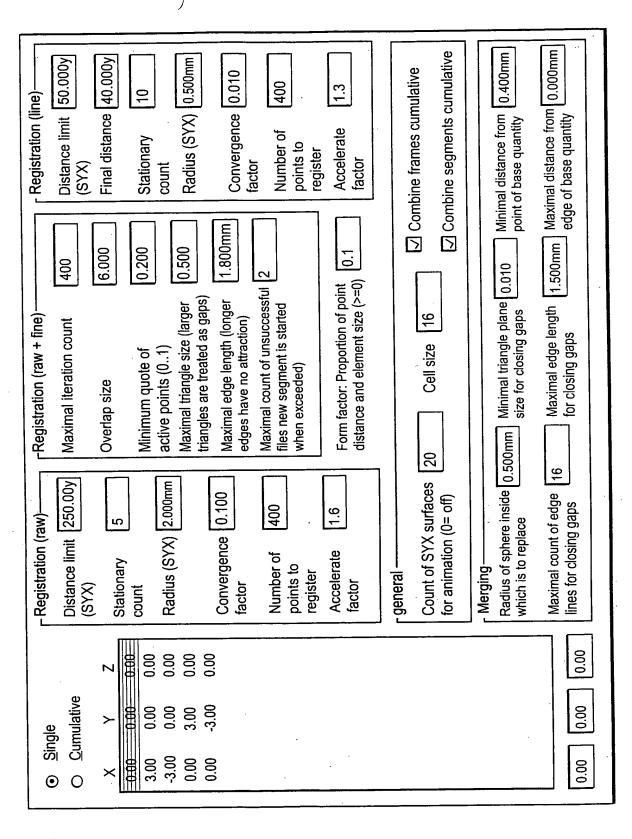


FIG. 54

Annotated Marked-up Drawns

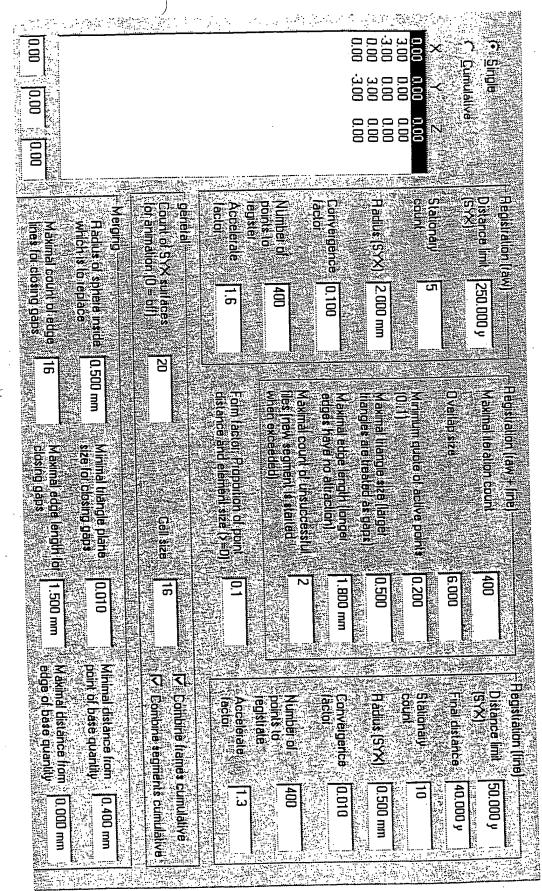
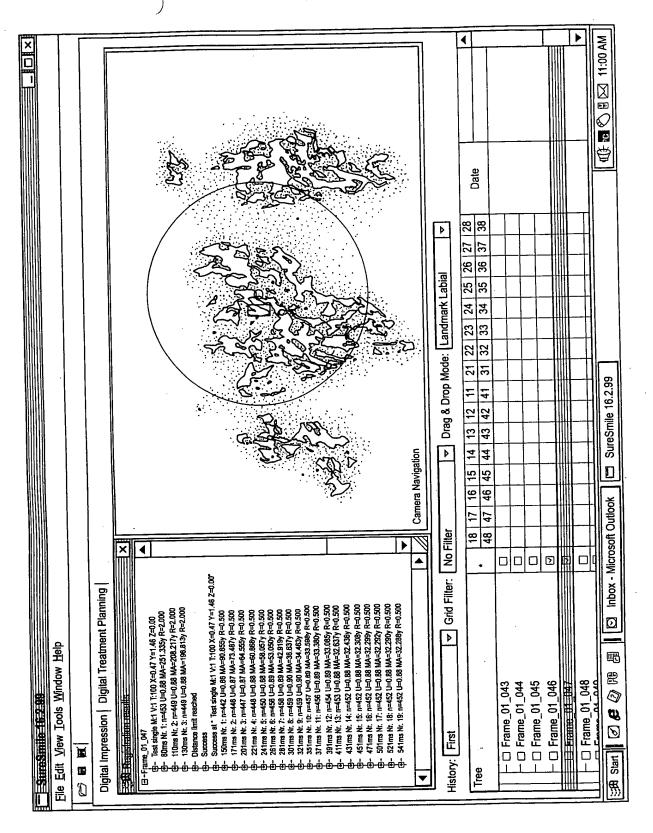


FIG. 54

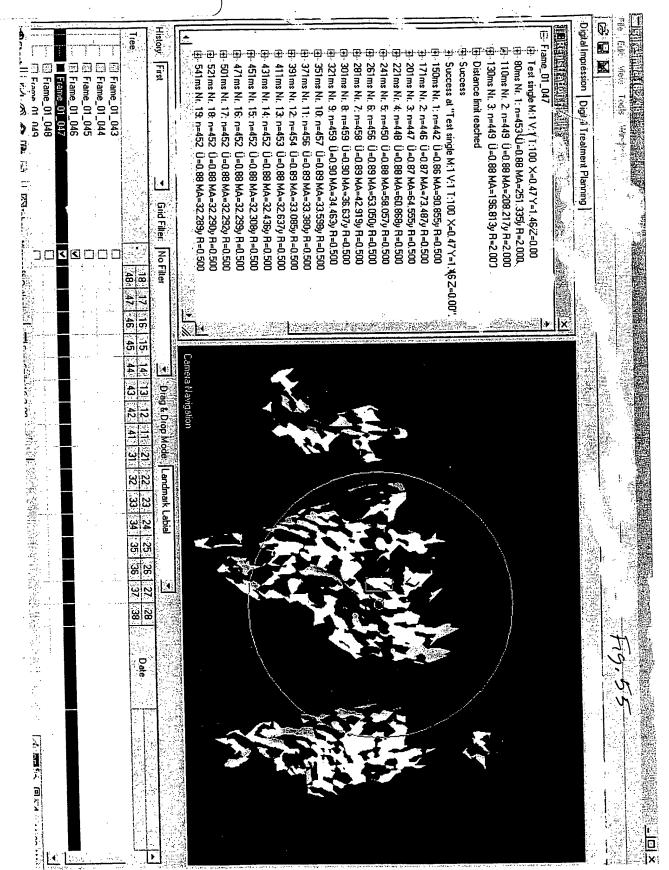


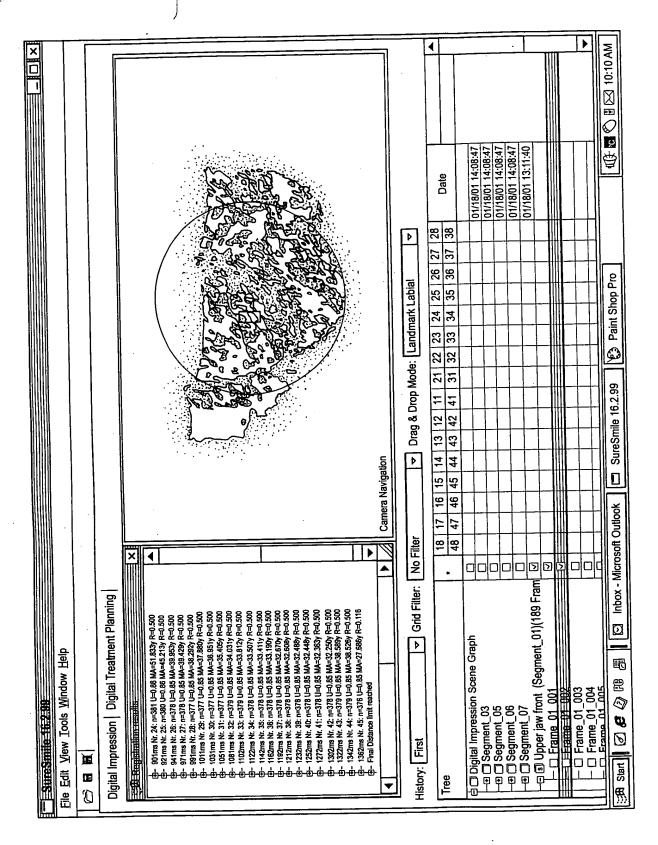
Appl. No. 09/834,413 Amdt. Dated 05/22/2006

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02/22/2006

Annotated Marked-up Drawny





Digital Impression Scene Graph  - B Segment_03  - B Segment_05  - B Segment_06  - B Segment_07  - B Segment_07  - B Segment_07  - B Frame_01_001  - Frame_01_002  - Frame_01_003  - Frame_01_004  - Frame_01_004  - Frame_01_004	12 12	⊕ 901ms Ni. 24: n=381 Ü=0.86 MA=51.833y R=0.500 ⊕ 921ms Ni. 25: n=380 Ü=0.86 MA=51.833y R=0.500 ⊕ 921ms Ni. 26: n=378 Ü=0.86 MA=39.953y R=0.500 ⊕ 941ms Ni. 26: n=377 Ü=0.85 MA=39.252y R=0.500 ⊕ 1011ms Ni. 27: n=378 Ü=0.85 MA=39.252y R=0.500 ⊕ 1031ms Ni. 20: n=377 Ü=0.85 MA=37.805y R=0.500 ⊕ 1051ms Ni. 30: n=377 Ü=0.85 MA=37.805y R=0.500 ⊕ 1051ms Ni. 31: n=377 Ü=0.85 MA=37.805y R=0.500 ⊕ 1102ms Ni. 31: n=377 Ü=0.85 MA=31.812y R=0.500 ⊕ 1102ms Ni. 31: n=379 Ü=0.85 MA=33.812y R=0.500 ⊕ 1102ms Ni. 33: n=379 Ü=0.85 MA=33.812y R=0.500 ⊕ 1122ms Ni. 34: n=378 Ü=0.85 MA=33.11y R=0.500 ⊕ 1152ms Ni. 36: n=378 Ü=0.85 MA=33.190y R=0.500 ⊕ 1152ms Ni. 36: n=378 Ü=0.85 MA=32.260y R=0.500 ⊕ 1232ms Ni. 37: n=378 Ü=0.85 MA=32.260y R=0.500 ⊕ 1232ms Ni. 39: n=378 Ü=0.85 MA=32.260y R=0.500 ⊕ 1252ms Ni. 40: n=378 Ü=0.85 MA=32.250y R=0.500 ⊕ 1252ms Ni. 40: n=378 Ü=0.85 MA=32.250y R=0.500 ⊕ 1252ms Ni. 41: n=378 Ü=0.85 MA=32.250y R=0.500 ⊕ 1252ms Ni. 42: n=378 Ü=0.85 MA=32.560y R=0.500 ⊕ 1362ms Ni. 42: n=378 Ü=0.85 MA=32.560y R=0.500 ⊕ 1362ms Ni. 42: n=378 Ü=0.85 MA=32.560y R=0.500 ⊕ 1362ms Ni. 43: n=379 Ü=0.85 MA=32.560y R=0.500 ⊕ 1362ms Ni. 45: n=378 Ü=0.85 MA=32.560y R=0.500	Till 12 11 18 12 11 18 18 18 18 18 18 18 18 18 18 18 18
01/18/01 14:08:47 01/18/01 14:08:47 01/18/01 14:08:47 01/18/01 13:11:40	b Möde: [Landmark Labial 〒] 11 271 22 23 24 25 26 27 28 Date 41 31 32 33 34 35 36 37 38 Date		75.56

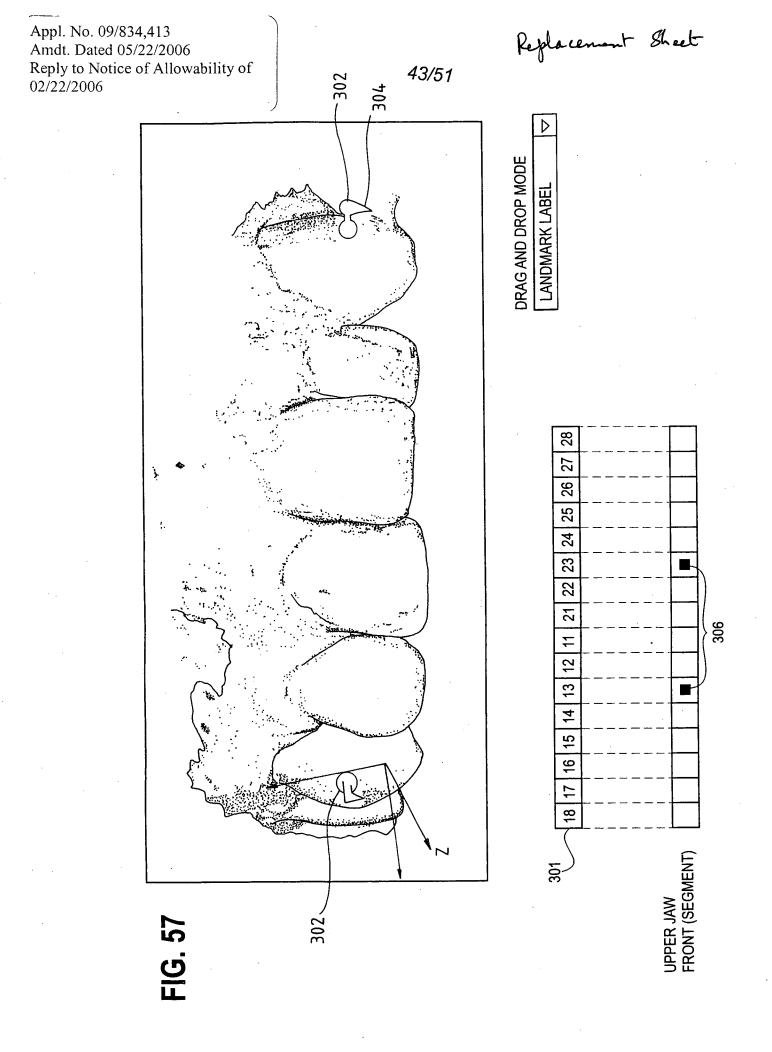
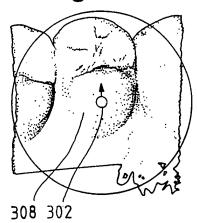


Fig. 58A



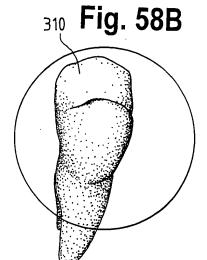
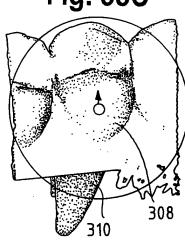
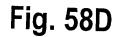


Fig. 58C





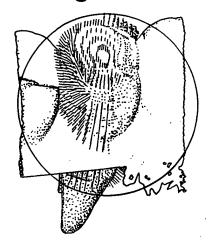


Fig. 58E

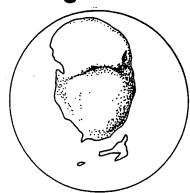
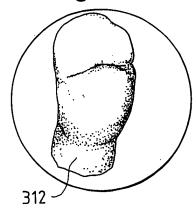
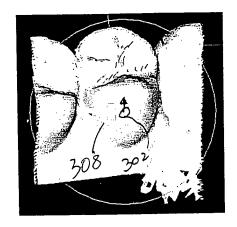


Fig. 58F



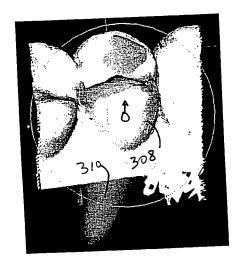
### Annotated Marked-up Drawn,

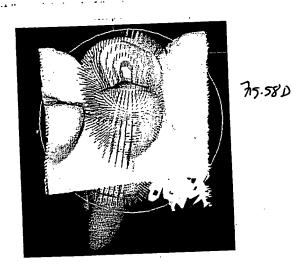
715.58 A

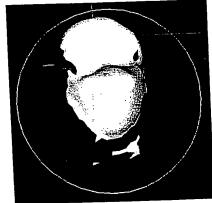


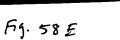
715. 58 B

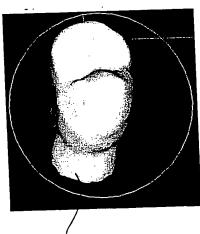
75. 58C





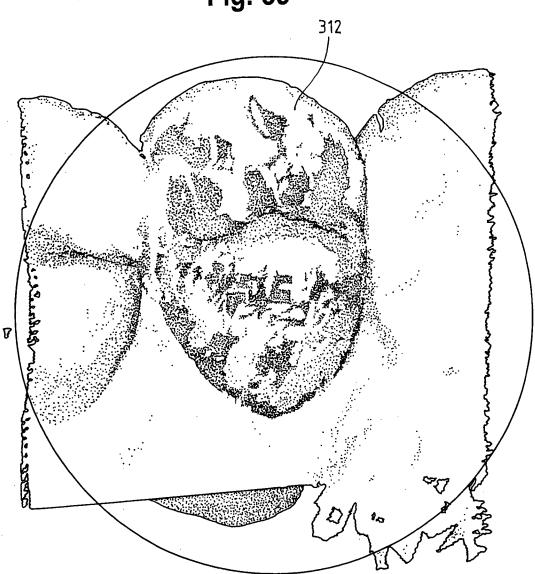




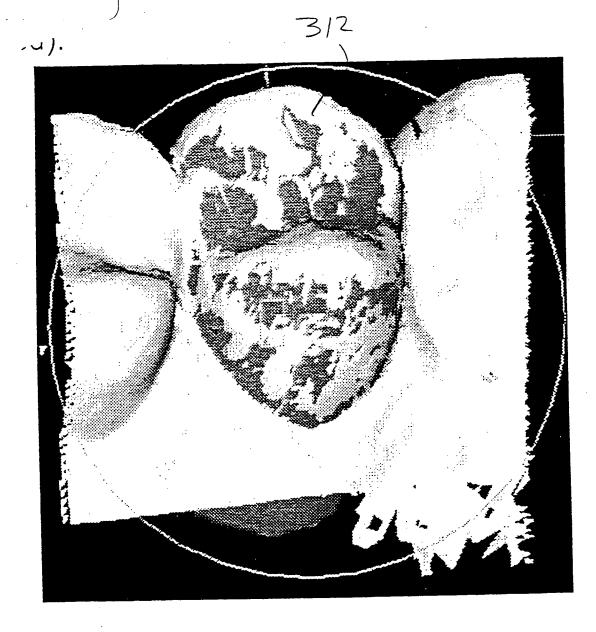


312 75. 58F.

Fig. 59



Annotated Marked-Up Drawing



75. 59

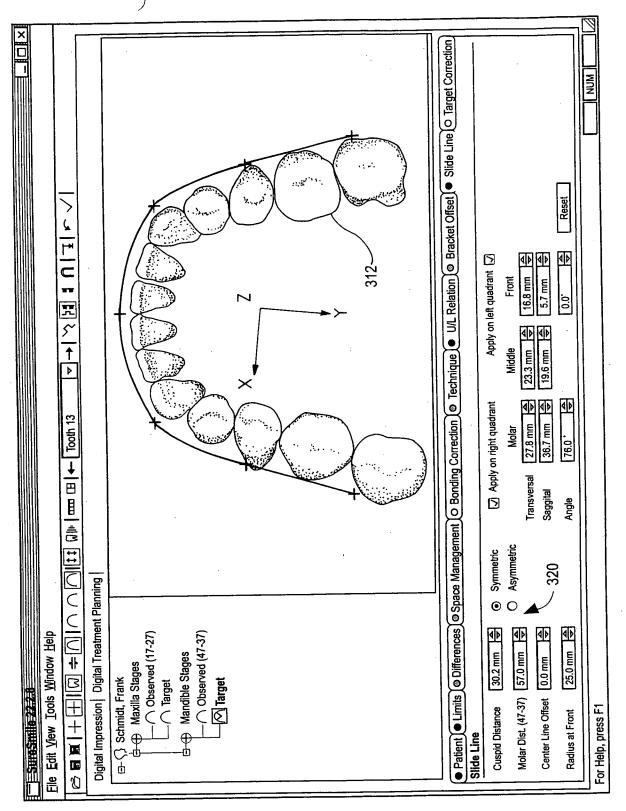
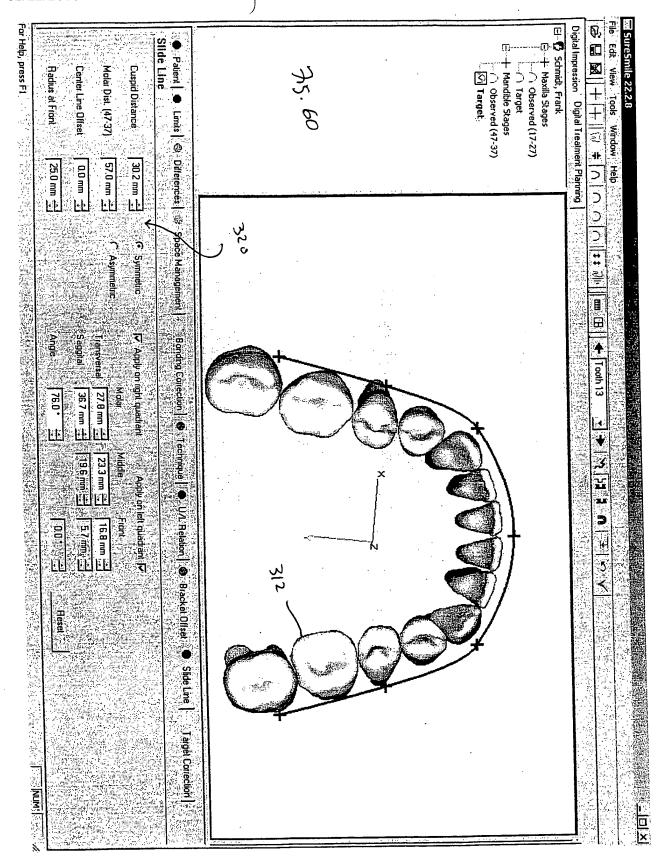
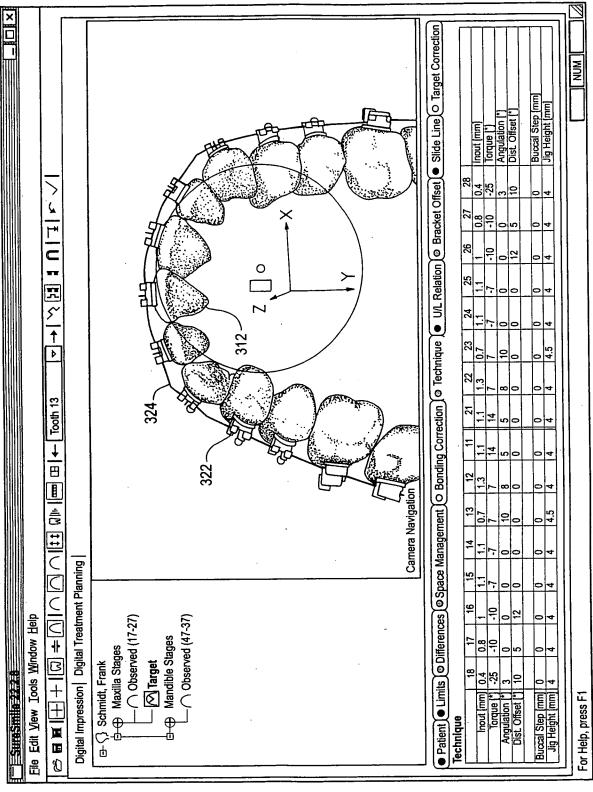


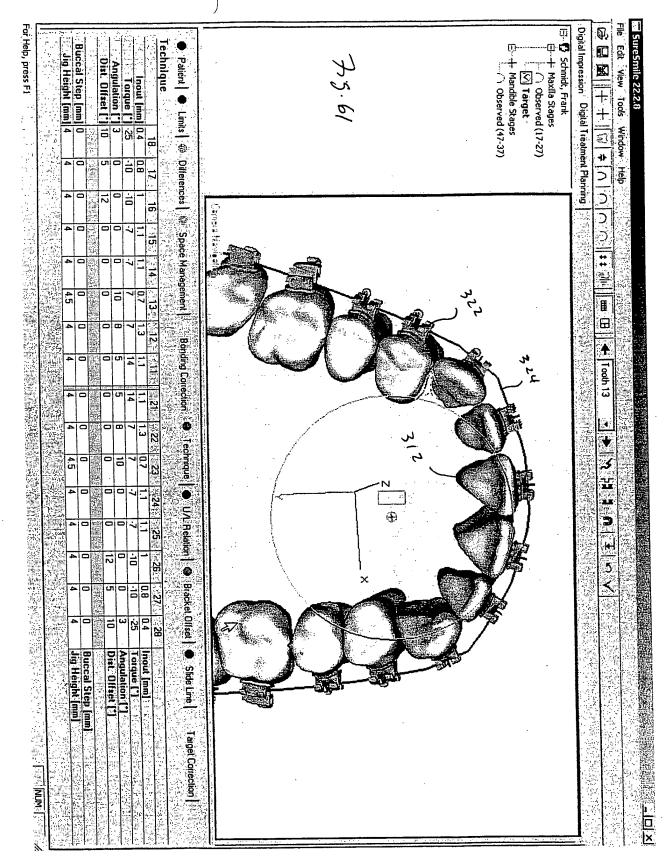
FIG. 60



Replacement Sheet



### Annotated Marked- Up Drawy

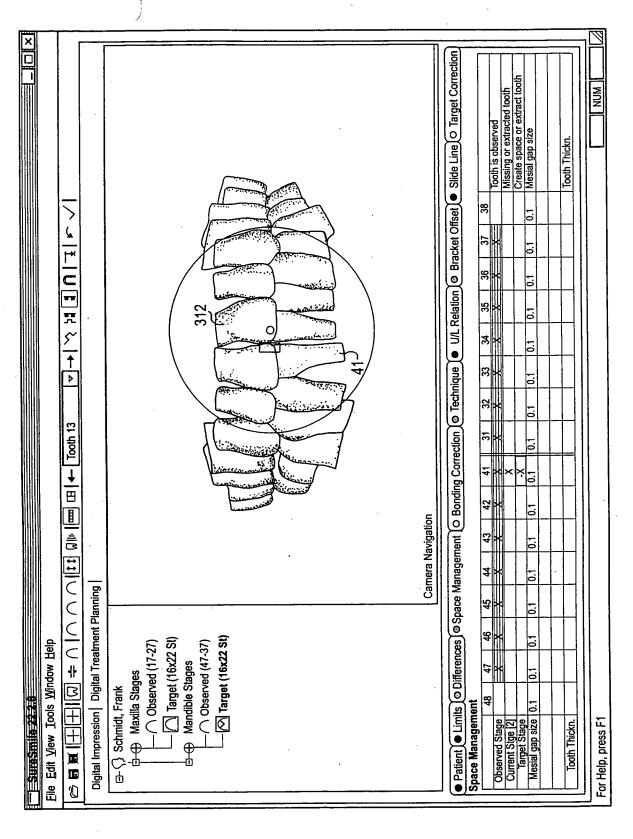


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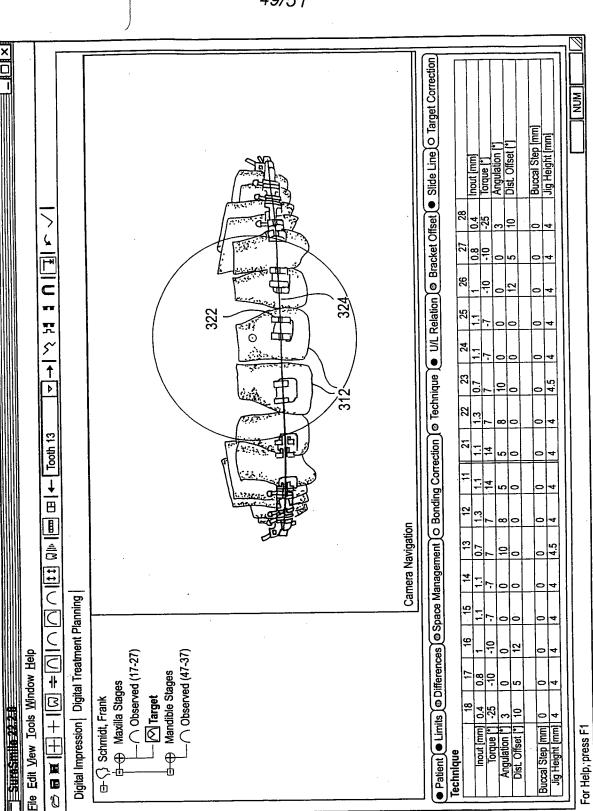
Reply to Notice of Allowability of

02/22/2006

Replacement Sheet



Target Stage Mesial gap size 0.1 Tooth Thickn:	Patient Limits ② Differences     Space Management 48 47 4     Observed Stage 多型 第8条件 6     Current Stage [2]	75.62	File Edit View Tools Window Help
0.1	Difference		tent Planning
0.1 0.1	i katalog kan kana		□ 2 2 3 = 5
	Managem 44		
0.1	8 an A2	ES	
	× × 41		₹ Tooth 13
0.1	eción   <b>①</b> Tec 31 322		
0.1			
0.1 0.1	1 1966 BUILDING ATTO	0	2 1.6 E
0.1	36		
[1] [1] [1] [1] [1] [1] [1] [1] [1] [1]	8 racket Offset		
0.1 Mesial gap size	Marie 1991		
C P	Tooth is observed  Missing or extracted tooth  Create space or extract tooth		
ze karana ka	Tooth is observed  Missing or extracted tooth  Create space or extract tooth	The state of the control of the cont	
IIIM			

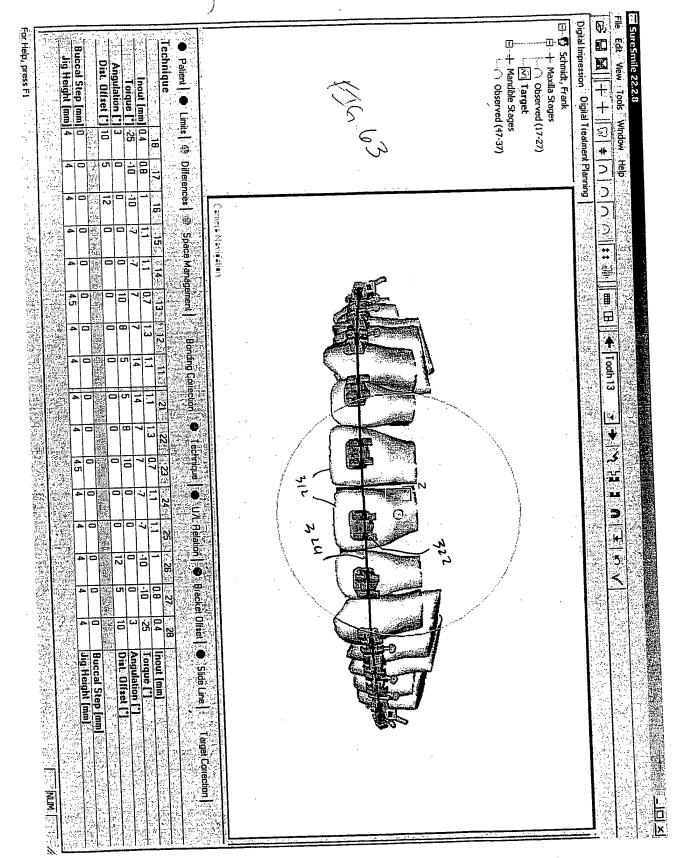


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Annotated Marked-up Drawing



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Replacement Sheet

Fig. 64A

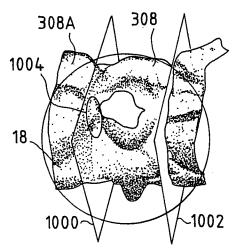


Fig. 64B
1006
18

308

Fig. 64C

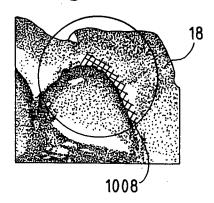
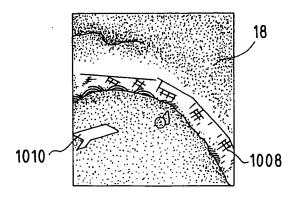
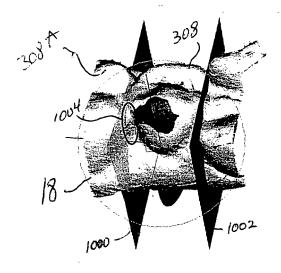


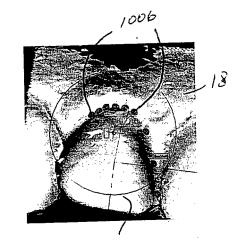
Fig. 64D



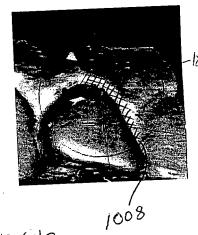
## Annotated Marked-up Daving



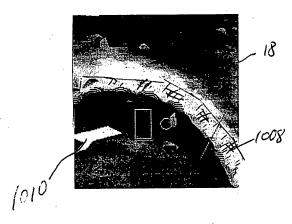
Tig. 64A



79.64B 308



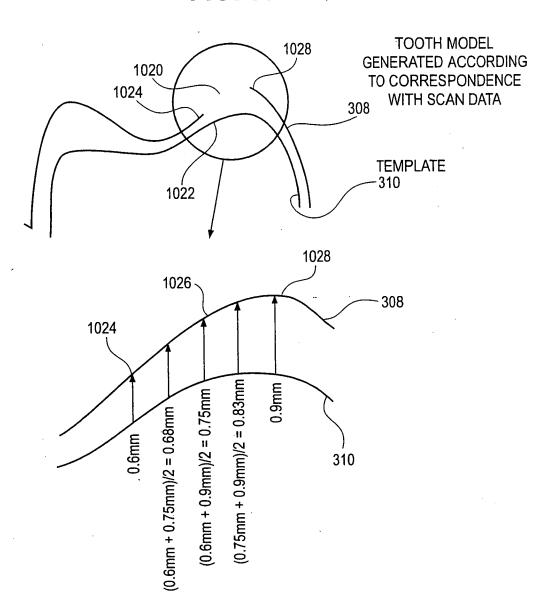
79 64C



719 64D

Replacement Sheet

FIG. 65



Annotated Marked-up Drawing Appl. No. 09/834,413 Amdt. Dated 05/22/2006 Reply to Notice of Allowability of Tooth Model generated according to Correspondence with Scan data 1028 10204 308 Template 3/0 1022 1028 1024 1024 0.9mm (0.75+0.9mm)/2=0.83mm (0.6mm+0.75mm)/2=0.68mm

02/22/2006

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